



# SyncMaster 730XT/930XT



## Install drivers

▷▷ Windows

## Install programs

▷▷ Natural Color

▷▷ MagicTune™



The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

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- Safety Precautions
- Introduction
- Connections
- Using Windows XPe
- Using the Software
- Adjusting the Monitor
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- Specifications
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## ○ Safety Precautions

Notation      Power      Installation      Cleaning and Using      Others

### ▶ Notation

**These safety instructions must be followed to ensure your safety and prevent property damage.  
Make sure to read the instructions carefully and use the product in the correct manner.**

### ! Warning / Caution



Otherwise, it may result in death or personal injury.

Otherwise, it may result in personal injury or property damage.

### ! Notational Conventions



Prohibited



Important to read and understand at all times



Do not disassemble



Disconnect the plug from the outlet



Do not touch



Ground to prevent an electric shock

Notation      Power      Installation      Cleaning and Using      Others

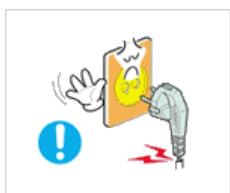
### ▶ Power



When not used for extended period of time, set your computer to DPM.  
If using a screen saver, set it to active screen mode.  
The images here are for reference only, and are not applicable in all cases (or countries).

[Shortcut to Anti-Afterimage Instructions](#)

- ▣ Do not use a damaged power cord or plug or a damaged or loose power outlet.

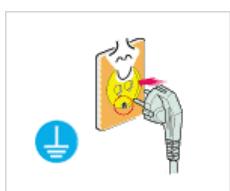


- ▶ Otherwise, this may result in electric shock or fire.



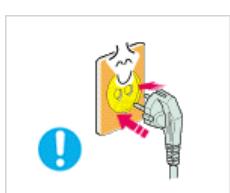
- ▣ Do not touch the power plug with wet hands when removing or plugging the plug into the outlet.

- ▶ Otherwise, this may result in electric shock.



- ▣ Make sure to connect the power cord to a grounded power outlet.

- ▶ Otherwise, it may result in electric shock or personal injury.



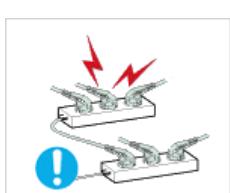
- ▣ Ensure that the power plug is plugged into the power outlet firmly and correctly.

- ▶ Otherwise, this may result in fire.



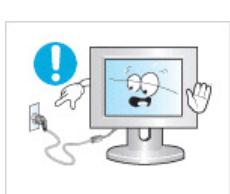
- ▣ Do not forcefully bend or pull the power plug and do not place any heavy material on it.

- ▶ Otherwise, this may result in fire.



- ▣ Do not connect multiple appliances to the same power outlet.

- ▶ Otherwise, this may cause fire due to overheating.



- ▣ Do not disconnect the power cord while using the product.

- ▶ Otherwise, this may result in damage to the product due to electric shock.

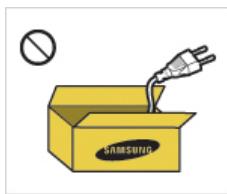


- ▣ To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

- ▶ This may cause electric shock or fire.

- ▣ Use only the power cord provided by our company. Do not use the provided power cord of another product.

- ▶ Otherwise, this may result in fire or electric shock.



## ▶ Installation



Be sure to contact an authorized **Service Center** when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it operates for 24 hours such as at airports, train stations etc.

Failure to do so may cause serious damage to your monitor.



- ▣ Do not drop the monitor when moving it.
  - ▶ This may cause damage to the product or the person carrying it.



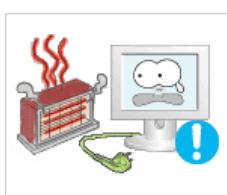
- ▣ Ensure that at least two persons lift and move the product.
  - ▶ Otherwise, it may be dropped and cause personal injury, and/or damage the product.



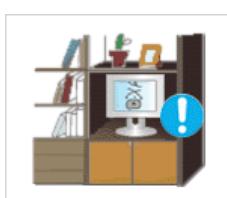
- ▣ When installing the product in a cabinet or rack, make sure that the front end of the bottom of the product does not project out.
  - ▶ Otherwise, it may fall or cause personal injury.
  - ▶ Use a cabinet or rack of a size appropriate to the product.



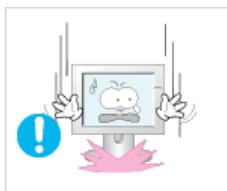
- ▣ DO NOT PLACE CANDLES, MOSQUITO REPELLANT, CIGARETTES AND ANY HEATING APPLIANCES NEAR THE PRODUCT.
  - ▶ Otherwise, this may result in fire.



- ▣ Keep heating appliances as far away from the power cord or the product as possible.
  - ▶ Otherwise, this may result in electric shock or fire.



- ▣ Do not install it in a badly ventilated location such as a bookcase or closet.
  - ▶ Otherwise, this may result in fire due to an increase in the internal temperature.
  
- ▣ Put down the monitor carefully.



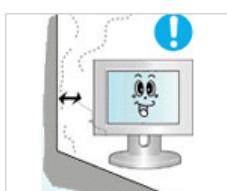
- ▶ Failing to do so may damage the monitor.



- ▣ Do not place the front of the product on the floor.
  - ▶ Otherwise, this may result in damage to the screen display.



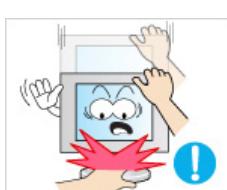
- ▣ Ensure that an authorized installation company installs the wall mount.
  - ▶ Otherwise, it may fall and cause personal injury.
  - ▶ Make sure to install the specified wall mount.



- ▣ Install your product in a well ventilated location. Ensure that there is a clearance of more than 10 cm from the wall.
  - ▶ Otherwise, it may result in fire due to an increase in the internal temperature.



- ▣ Ensure that the packaging vinyl is kept away from children.
  - ▶ Otherwise, it may result in serious harm (suffocation) if children play with it.



- ▣ If the height of your monitor is adjustable, do not place any object or part of your body on the stand when lowering it.
  - ▶ This may cause damage to the product or the person carrying it.

Notation      Power      Installation      Cleaning and Using      Others

## Cleaning and Using



When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.



- ▣ Do not spray cleaner directly onto the surface of the product.
  - ▶ Otherwise, this may result in the discoloration and distortion of the structure and the screen surface may peel off.

- ▣ Clean the product using a soft cloth with a monitor cleaner only. If you must use a cleaner other than the monitor cleaner, dilute it with water at a ratio of 1:10.



- When cleaning the power plug pins or dusting the power outlet, clean it with a dry cloth.

Otherwise, it may result in fire.

- When cleaning the product, make sure to disconnect the power cord.

Otherwise, it may result in electric shock or fire.

- When cleaning the product, disconnect the power cord and clean it softly with a dry cloth.

(Do not use chemicals such as wax, benzene, alcohol, thinner, mosquito repellent, lubricant, or cleaner.) These may change the appearance of the product surface and peel off the indication labels on the product.

- Since the product housing is easily scratched, make sure to use the specified cloth only.

Use the specified cloth adding only a little water. As the product may be scratched if there is any foreign material on the cloth, make sure to shake it thoroughly before using it.

- When cleaning the product, do not spray water directly onto the main body of the product.

Ensure that water does not enter the product and that it is not wet.

Otherwise, this may result in electric shock, fire or a malfunction.

Notation Power Installation Cleaning and Using **Others**

## Others



- The product is a high voltage product. Ensure that users do not disassemble, repair or modify the product themselves.

Otherwise, this may result in electric shock or fire. If the product needs to be repaired, contact a [Service Center](#).



- If there is a strange smell or a strange sound or smoke is coming from the product, disconnect the power plug immediately and contact a [Service Center](#).

Otherwise, this may result in electric shock or fire.



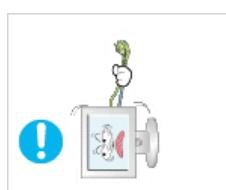
- Do not place this product in a location exposed to moisture, dust, smoke, water, or in a car.
  - Otherwise, this may result in electric shock or fire.



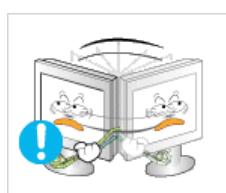
- When you drop the product or the case is broken, turn the power off and disconnect the power cord. Contact a [Service Center](#).
  - Otherwise, this may result in electric shock or fire.



- If thunder or lightning is occurring, do not touch the power cord or antenna cable.
  - Otherwise, this may result in electric shock or fire.



- Do not try to move the monitor by pulling only the wire or the signal cable.
  - Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.



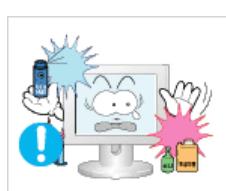
- Do not lift or move the product back and forwards or right and left while only holding the power cord or signal cables.
  - Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.



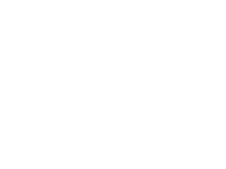
- Make sure that the ventilating opening is not blocked by a table or curtain.
  - Otherwise, it may result in fire due to an increase in the internal temperature.



- Do not place any containers containing water, vases, flowerpots, medicines as well as any metal on the product.
  - If water or a foreign material enters the product, disconnect the power cord and contact a [Service Center](#).
  - This may result in a product malfunction, electric shock, or fire.



- Do not use or keep combustible spray or flammable material near the product.
  - Otherwise, this may result in an explosion or fire.



- Do not insert any metal, such as chopsticks, coins, pins and steels, or inflammable objects, such as matches or paper, inside the product (through the ventilating openings, input and output terminals, etc.).
  - If water or foreign material enters the product, disconnect the power cord and contact a [Service Center](#).



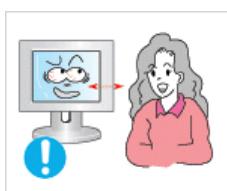
- ▶ Otherwise, this may result in electric shock or fire.



- ▣ When using a fixed screen for a long time, an afterimage or stain may occur.
  - ▶ If you are not using your product for a long period of time, put it into sleep mode or use a moving screen saver.



- ▣ Set a [resolution](#) and frequency appropriate to the product.
  - ▶ Otherwise, your eyesight may be damaged.



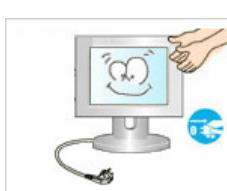
- ▣ If you continually move closer to the product screen, your eyesight may be failing.



- ▣ To ease eye strain, take at least a five-minute break after every hour of using the monitor.



- ▣ Do not install it in an unstable location such as an unstable rack or uneven surface or a location exposed to vibrations.
  - ▶ Otherwise, it may fall and cause personal injury and/or damage the product.
  - ▶ If you use the product in a location exposed to vibrations, it may damage the product and result in fire.



- ▣ When moving the product, turn the power off and disconnect the power plug, antenna cable, and all the cables connected to the product.
  - ▶ Otherwise, it may result in electric shock or fire.



- ▣ Ensure that children do not hang onto the product or climb up onto the product.
  - ▶ The product may fall and cause personal injury or death.

- ▣ If you do not use the product for a long period of time, disconnect the power cord from the power outlet.
  - ▶ Otherwise, this may result in overheating or fire due to dust, and may result in fire due to electric shock or leakage.



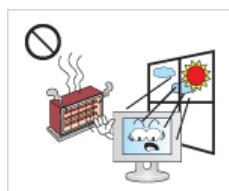
- Do not place any heavy items or toys or confectionery, such as cookies etc. that may attract the attentions of children onto the product.

► Your children may hang onto the product causing it to fall and this may result in personal injury or death.



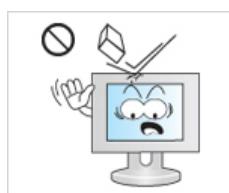
- Do not turn the product upside down or move it while holding only the stand.

► Otherwise, it may fall and result in personal injury and/or damage to the product.



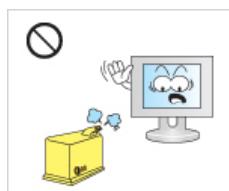
- Do not place the product in a location exposed to direct sunlight or near any heat such as a fire or heater.

► This may reduce the lifetime of the product, and may result in fire.



- Do not drop any objects onto the product or cause any impact to the product.

► Otherwise, this may result in electric shock or fire.



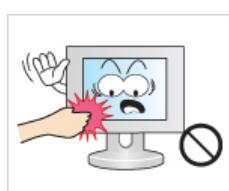
- Do not use a humidifier or kitchen table near the product.

► Otherwise, this may result in electric shock or fire.



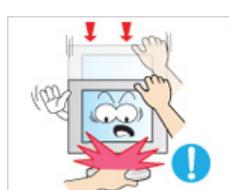
- When there is a gas leak, do not touch the product or the power plug but ventilate immediately.

► If a spark occurs, it may cause an explosion or fire.



- If the product has been turned on for a long time, the display panel becomes hot. Do not touch it.

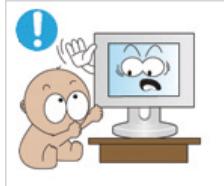
► Keep the small accessories in a location out of the reach of children.



- Be careful when adjusting the angle of the product or the height of the stand.

► This may result in personal injury as your hand or fingers may become caught.

► Also, if you tilt the product too far, it may fall and cause personal injury.



- ▣ Do not install the product in a location low enough for children to reach.
  - ▶ Otherwise, it may fall and result in personal injury.
  - ▶ Since the front part of the product is heavy, install the product on a level and stable surface.



- ▣ Do not put any heavy objects on the product.
  - ▶ This may result in personal injury and/or damage to the product.

## ▣ Good Postures When Using the Monitor



- ▶ When using the product, use it in the correct position.
  - Keep your back straight while looking at the product.
  - The distance between your eyes and the screen should be between 45 to 50 cm. Look at the screen from a slightly higher location than the height of the screen.
  - When using the product, use it in the correct position.
  - Adjust the angle so that light is not reflected on the screen.
  - Place your arms perpendicular to your sides and allow your arms to be level with the back of the hand.
  - Keep your elbow at 90 degrees.
  - Keep your knees at greater than 90 degrees, and keep your heels firmly on the floor. Keep your arms lower than your heart.

Correct Disposal of This Product  
(Waste Electrical & Electronic Equipment) - Europe only

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



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↑ TOP  
↑ MAIN  
↑ ⊞

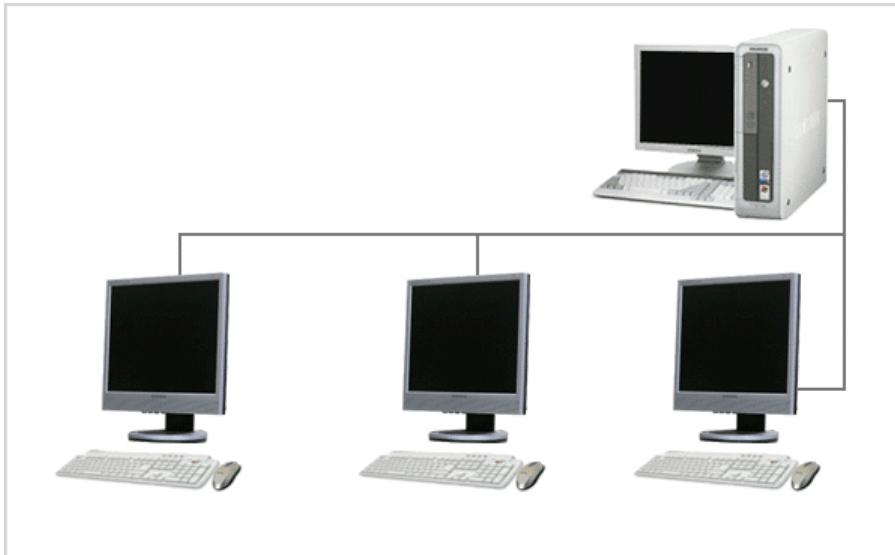
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## ○ Introduction

Features   Package Contents   Your Monitor

### ▶ Features

#### □ What is a network monitor?



- ▶ A network monitor can be used for the same purposes as a common monitor. It also provides the functionalities of most computers, such as an Internet connection, creating documents, editing images, via a connection to the host PC over the LAN. In addition, it allows you to connect an external device (DSC, MP3, external storage media) to the USB port and play music, movies and games. It is a new concept monitor.
- ▶ You also can share the screen being displayed on your network monitor with other users by connecting a projector or other display device to its VGA OUT port. You can use this functionality for video conferencing and a variety of shared tasks.
- ▶ In addition, because Windows XP is installed on your network monitor, you can perform Internet searches and USB memory searches independently of your host PC.

Features   Package Contents   Your Monitor

### ▶ Package Contents

Please make sure the following items are included with your monitor.  
If any items are missing, [contact your dealer](#).  
[Contact a local dealer](#) to buy optional items.

#### ► Unpacking



Without stand



With Stand

#### ► Manual



Quick Setup Guide



Warranty Card  
(Not available in all  
locations)



User's Guide, Monitor Driver,  
Natural Color software,  
MagicTune™ software

#### ► Cable



Power Cord

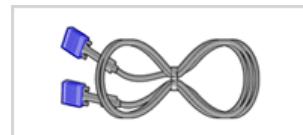
#### ► Sold separately



Keyboard (USB)



Mouse (USB)

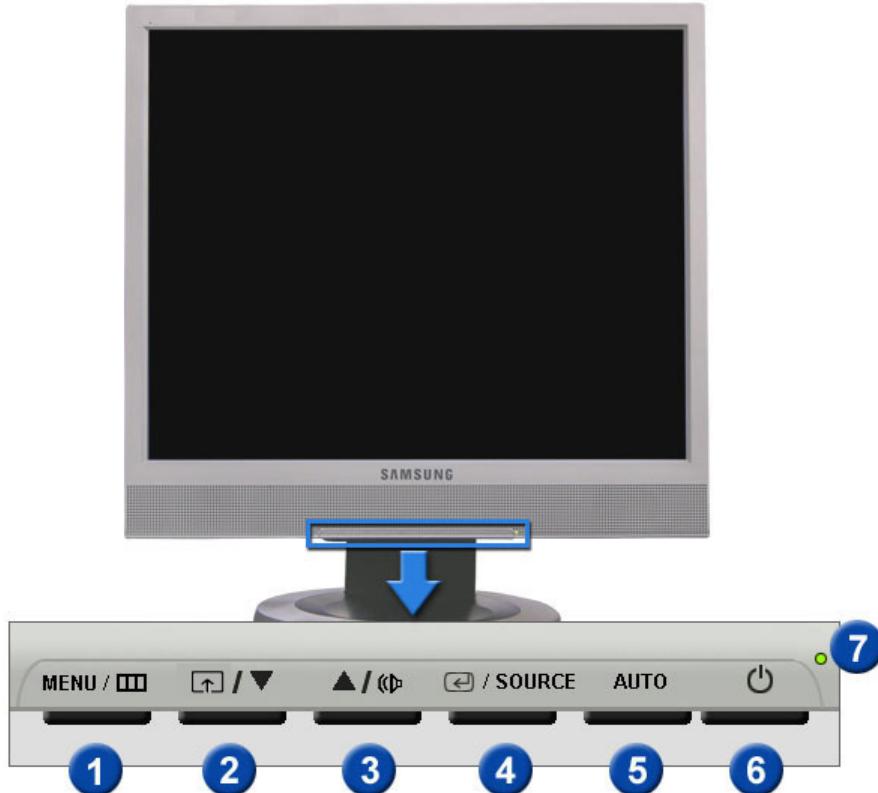


D-Sub Cable

[Features](#) [Package Contents](#) [Your Monitor](#)

## ► Your Monitor

#### ► Front



① MENU button [☰] Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.

② Customized Key [□] You can customize key assignment for the Custom button according to your preferences.  
 ☺ You can configure the customized key for a required function via [Setup>Customized Key](#).

③ Volume button [VV] When OSD is not on the screen, push the button to adjust volume.

④ Adjust buttons [▼/▲] Adjust items in the menu.

⑤ Enter button [□] / SOURCE button Activates a highlighted menu item. / Push the 'SOURCE', then selects the video signal while the OSD is off. (When the SOURCE button is pressed to change the input mode, a message appears in the upper left of the screen displaying the current mode -- Analog or MagicNet input signal.)

⑥ AUTO button Use this button for auto adjustment.  
[Click here to see an animation clip](#)

⑦ Power button [⊕] Use this button for turn the monitor on and off.  
 ☺ Be careful as pressing the Power button in client mode will shut down Windows XPe. Be careful that if you force shut down Windows it may cause damage.  
 In these cases your monitor will be forcefully shut down and this may cause damage to your operating system. Therefore ensure that the EWF function is enabled.  
 1. Turn the power off by holding down the Power button after switching to Monitor mode from Client mode.  
 2. Turn the power off by holding down the Power button for more than five(5) seconds in Client mode.  
 When unable to boot up your computer because of a Windows crash, please contact your Administrator.

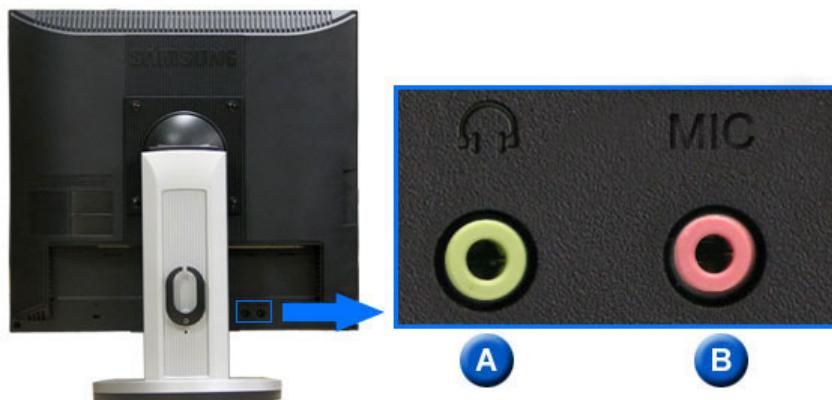
⑧ Power indicator This light glows green during normal operation, and blinks green once as the monitor saves your adjustments.  
 ☺ See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.

▣ Rear



※ The configuration at the back of the monitor may vary from product to product.

① POWER IN port	Connect the power cord for your monitor to the power port on the back of the monitor.
② VGA IN port	Connect the signal cable to the 15-pin, D-sub port on the back of your monitor.
③ RS-232C Connection Terminal	Connect a RS-232C cable to this terminal.
④ VGA OUT port	Connect a monitor to another monitor through a D-Sub cable.
⑤ Kensington Lock	The Kensington lock is a device used to physically fix the system when using it in a public place. ※ The locking device has to be purchased separately. For using a locking device, contact where you purchase it.
⑥ Cable Fix Ring	When connecting the cable is finished, fix the cables to the Cable Fix Ring.



Ⓐ Earphone jack [ ]	Headphone connection terminal.
Ⓑ The Microphone connection terminal (MIC)	Connect a microphone to the MIC terminal.



- C**  USB  
(USB Connection Terminal)  
Connect USB devices such as a mouse, keyboard and external storage devices (DSC, MP3, external storage, etc.).
- D** LAN  
(LAN Connection Terminal)  
Connect when using it as a monitor.
- E** AUDIO IN  
Connect the audio cable for your monitor to the audio port on the back of your computer.

※ See [Connecting Cables](#) for further information regarding cable connections.

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MAIN  
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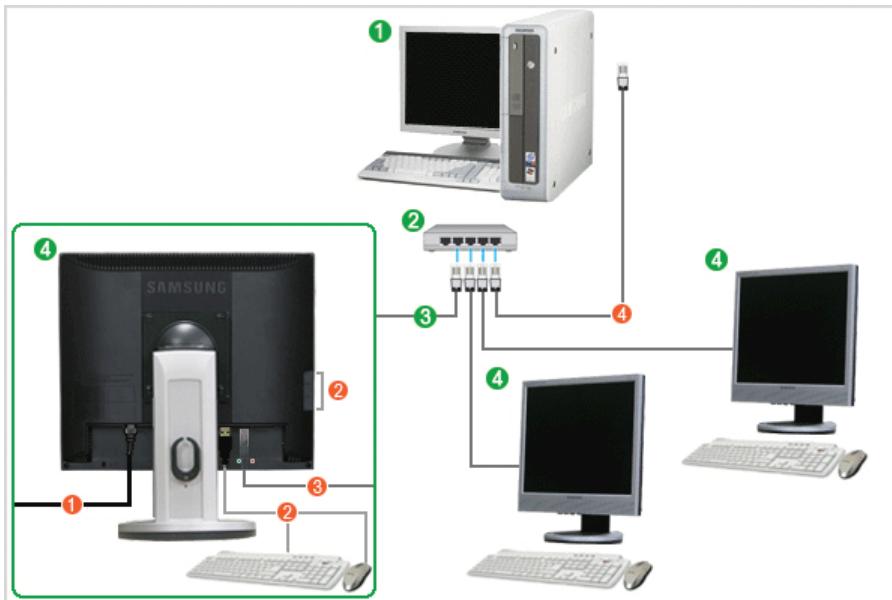
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## Connections

Connecting Cables Using the Stand Using Other Stands

### Connecting Cables

#### Connect to the host PC using a LAN cable



① Host PC      ② Hub      ③ LAN Cable      ④ Monitor

- ① Connect the power cord to the power terminal at the back of the monitor.
- ② Connect the mouse and the keyboard to the USB ports.
- ③ Connect the LAN port on the back of the monitor and the hub.
- ④ Connect the hub and the LAN port of the host PC.

※ The host PC must have an IP address.

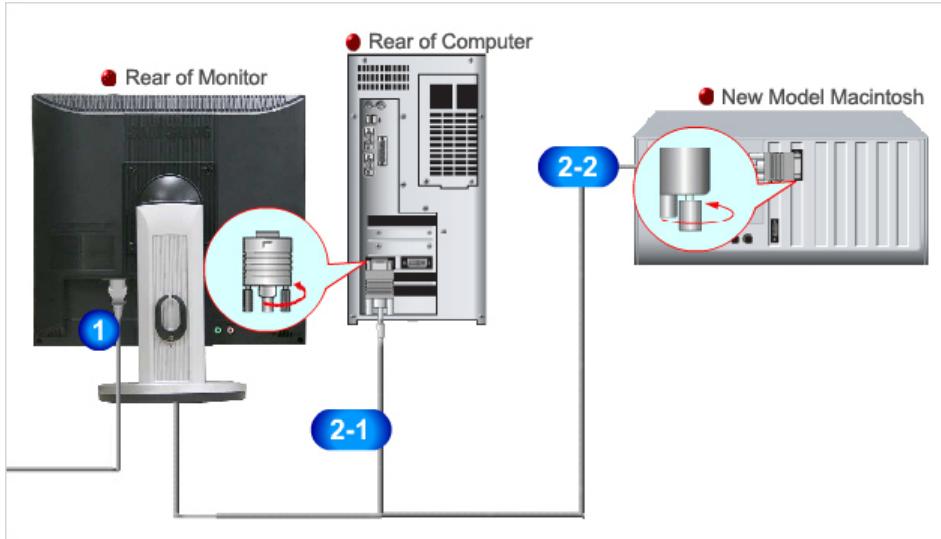
After connecting the LAN and setting the IP address, you can view the host PC screen on the monitor.

Use the VGA IN port to directly connect the monitor to a PC.

Connect to the VGA OUT port to display the same picture on another monitor such as the projector. (For presentation purposes)

Use the USB port to connect an external storage device (DSC, MP3, external storage, etc.).

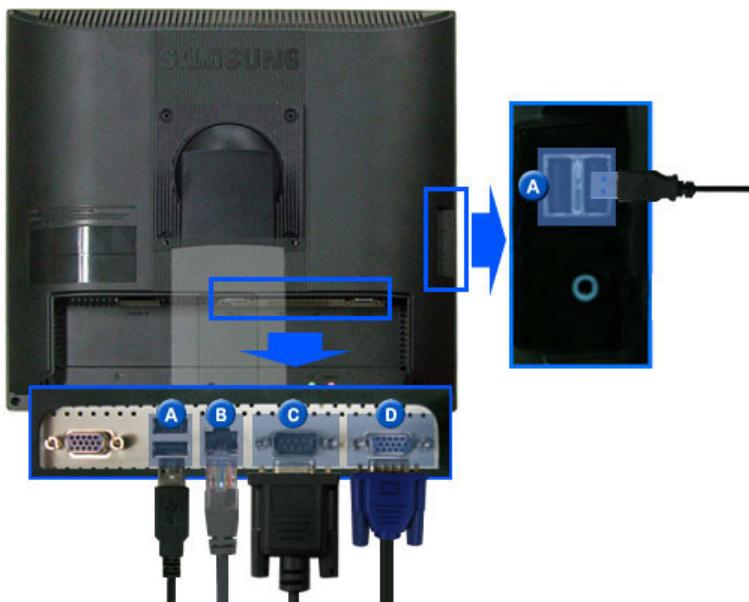
#### Connecting Cables (When used as a normal monitor)



- ① Connect the power cord for your monitor to the power port on the back of the monitor.  
Plug the power cord for the monitor into a nearby outlet.
- ② Use appropriate connection for your computer.
  - 2-1 Using the D-sub (Analog) connector on the video card.  
- Connect the D-Sub Cable to the VGA IN port on the back of your monitor.  
 [VGA IN]
  - 2-2 Using Macintosh  
- Connect the monitor and the Macintosh computer using the computer connection cable.

※ If the monitor and the computer are connected, you can turn them on and use them.

#### External Device Connection



<b>A</b>  USB (USB Connection Terminal)	Connect USB devices such as a mouse, keyboard and external storage devices (DSC, MP3, external storage, etc.). (You cannot use these devices without connecting to the host PC or switching to the MagicNet.)
<b>B</b> LAN (LAN Connection Terminal)	Connect the LAN cable.
<b>C</b> RS-232C Connection Terminal	Connect a RS-232C cable to this terminal.
<b>D</b> D-sub 15-pin port [VGA OUT]	Use it by connecting it to another monitor. (The picture of the main monitor is displayed on the connected monitor.)

## ► Using the Stand

### ► Tilt angle



※ You can tilt the monitor screen forward to adjust the angle to a particular angle.

### ► Swivel stand

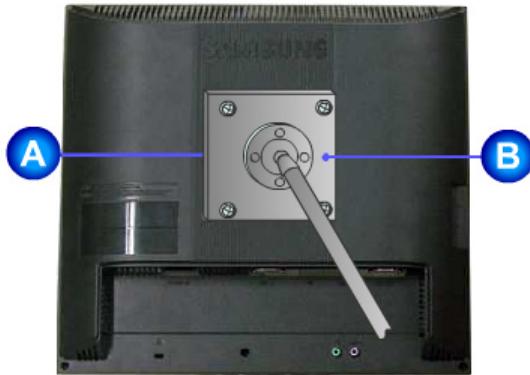


※ You can easily adjust the position of the monitor screen from right to left using the rotating stand. Rubber stubs are attached at the bottom of the monitor to help fix it to the installation location.

## ► Using Other Stands

### ► Attaching a Base

※ This monitor accepts a 100 mm x 100 mm VESA-compliant mounting interface pad.



**A** Monitor

**B** Mounting interface pad ( Sold separately )

- ① Turn off your monitor and unplug its power cord.
- ② Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
- ③ Remove four screws and then remove the stand from the LCD monitor.
- ④ Align the mounting interface pad with the holes in the rear cover mounting Pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.



- Do not use screws longer than the standard dimension, as they may damage the inside of the Monitor.
- For wall mounts that do not comply with VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.  
Do not fasten the screws too tightly, as this may damage the product or cause the product to fall, leading to personal injury.  
Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- To mount the monitor on a wall, you should purchase the wall mounting kit that allows you to mount the monitor at least 10cm away from the wall surface.
- Contact the nearest Samsung Service Center for more information. Samsung Electronics will not be responsible for damages caused by using a base other than those specified.
- **Please use Wall Mount according to the International standards.**





The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

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## ○ Using Windows XPe

What is XPe Client? Logon Windows XP Embedded Desktop Programs Control Panel Configuring Utilities Recover the System

### ▶ What is XPe Client?

An Microsoft Windows XP Embedded(XPe) client uses the Microsoft Windows XP Embedded operating system. When an XPe client is connected to a Citrix ICA server or another server that can provide the Microsoft RDP service, data for the keyboard, mouse, audio/video and display are transmitted through the network between the client and the server.

#### ▣ Connectable Servers

##### A Citrix ICA (Independent Computing Architecture) Server

- A Microsoft Windows 2000/2003 Server where the terminal services and Citrix MetaFrame are installed
- A Microsoft Windows NT 4.0 Server where the Citrix MetaFrame is installed

##### A Microsoft RDP (Remote Desktop Protocol) Server

- A Microsoft Windows 2000 Server where the terminal services are installed
- A Microsoft Windows 2003 Server
- A Microsoft Windows XP Professional

※ This manual describes the functions provided by the XPe Client. However, it does not explain general functionalities of Windows XP Embedded. For more general information on Windows XP Embedded, refer to [Windows XP Embedded Help](#) provided by Microsoft.

What is XPe Client? Logon Windows XP Embedded Desktop Programs Control Panel Configuring Utilities Recover the System

### ▶ Logon

#### ▣ Logon

When the client starts, you can logon to the server by entering your username and password. The default usernames already configured are 'Administrator' and 'User', and their passwords are a space.

What is XPe Client? Logon Windows XP Embedded Desktop Programs Control Panel Configuring Utilities Recover the System

### ▶ Windows XP Embedded Desktop

#### ▣ User

When a user logs in, the User Desktop appears, as shown in the figure below. The default icons that appear on the User Desktop are Citrix Program Neighborhood, Remote Desktop Connection and Internet Explorer. You can also run this connection from the Start menu. The audio volume icon, VNC server icon and system time are displayed on the User Taskbar.

When logged on as a user, there are many restrictions that protect the system from incorrect user actions. You cannot access the system drives and there are restrictions on configuring properties for them. To configure the client's advanced and detailed settings, log on as an administrator.

#### ▣ Administrator

If you logon as Administrator, the Administrator Desktop appears, as shown in the figure below. The default icons that appear on the Administrator Desktop are My Computer, My Network Places, Citrix Program Neighborhood, Remote Desktop Connection, Internet Explorer, and Recycle Bin. You can also run the Citrix Program Neighborhood, Remote Desktop Connection, and Internet Explorer from the Start menu. The audio volume icon, VNC server icon, Enhanced Write Filter status icon, and system time are displayed on the Administrator Taskbar. The Administrator privilege is required for adding and removing programs.

#### Log off, Restart, Shut down

- To log off the current session, shut down or restart your client, use the Start menu. Click Start → Shut down. The Shut Down Windows dialog box is displayed. Select an operation from the combo box and click OK. You can also log off or shut down your client using the Windows Security dialog box displayed when pressing the Ctrl + Alt + Del keys. If 'Force Auto Log on' is activated, you will be immediately logged on after each log off.
- The Client Log off, Restart and Shutdown take effect on the operations of the EWF(Enhanced Write Filter). To keep the changed system configuration, you must save a cache for the current system session into flash memory. Failing to do so will cause the changed configuration to be lost when the client is shutdown or restarted. (In the case of logging off, the configuration is remembered when logging in again.) [For more information on the Enhanced Write Filter, refer to the Program Help](#) .

## Programs

- XPe Client is a client/server-based computing platform. On this platform, the client accesses the server each time it needs a program and it only receives the user interface screens from the server. Hence, various programs, such as ICA, RDP, and VNC, which are installed on a XPe Client, are used to help the client access the server and perform user tasks.

#### Citrix Program Neighborhood

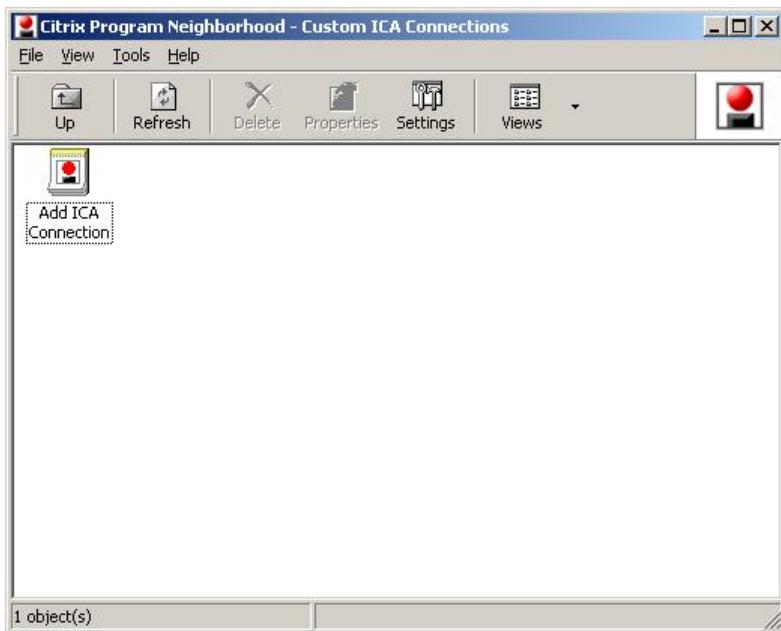
Independent Computing Architecture (ICA) allows you to use applications on the server through a wide range of platforms and networks regardless of their basis.

The ICA MetaFrame Server separates the application's internal logic from the user interface. Due to this separation, users only work with the user interface on the client. The actual application is 100% run on the server. In addition, running an application through ICA only uses approximately 10 % bandwidth compared to running it locally. By using this feature of ICA, users can do more work on the client than working locally. The core technologies of ICA are as follows:

- Thin Resource
  - Low system requirements needed for running ICA; a computer equipped with an Intel 286 processor and 640K RAM is sufficient. This means ICA can be run on any computer that exists at present.
- Thin Wire
  - The default bandwidth required by ICA protocol is 20 kbps, on average. Therefore, even with a Dial-Up or ISDN connection, a consistent performance is maintained. Any program, however large it is, can be run stably at a low bandwidth.
- Universal Application Client
  - The Citrix ICA protocol separates the user interface from the application. While an application is running on the WinFrame multi-user application server, its user interface is running on the thin client software of WinFrame. Hence, in any environment, it is possible to run applications fast.
- Platform Independent
  - ICA is inherently being operated regardless of the operating system platform. Because the clients for UNIX, OS/2, Macintosh, and Non-DOS are already on the market, you can run Windows applications on these operating systems.

The Citrix Program Neighborhood is a program that manages these ICA connections. To start the Citrix Program Neighborhood, select Start → Programs → Citrix → MetaFrame Access Clients → Program Neighborhood, or double-click the Citrix Program Neighborhood icon.

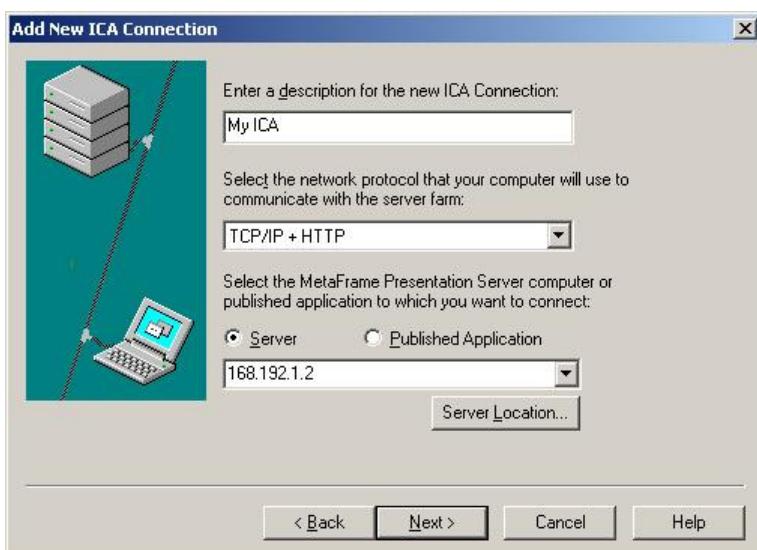
To create a new ICA connection, double-click the Add ICA Connection icon and follow these steps:



1. Select the type of connection to create.



2. Type the connection name and the server name (IP address or DNS name).



3. Configure the degree of compression for the data to be sent and received, and the degree of reliability for sessions.



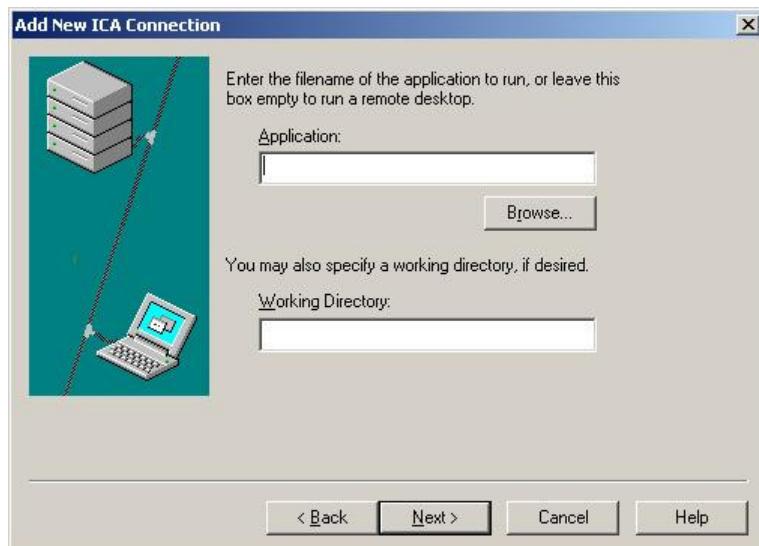
4. To login to the server automatically, enter your username, password and domain. If you do not enter them now, you will be prompted to enter them whenever you connect to the server.



5. You can specify the color and size of the window to be displayed.



6. If a connection succeeds, the server's desktop appears on the client. In this step, you can make an application run automatically.



7. Click Finish to complete creating the new connection.



✖ For more information on the ICA Client Program, visit the [Citrix](#) web site.

#### ▣ The Remote Desktop Connection

You can control a running terminal server or another computer (Windows 95 or later) remotely through a remote desktop connection.

##### ▣ **Remote Desktop**

- Windows XP Professional or Windows 2000/2003 Server must be installed on the computer to be controlled remotely. This computer is called a host.
- A remote computer running on an operating system later than Windows 95 is required. This remote computer is called a client. The client software for the remote desktop connection must be installed on the client.
- You must also be connected to the Internet. A broadband Internet connection is good for high performance. However, because the remote desktop transmits a minimum set of data including the display data and keyboard data to control the host remotely, a broadband Internet connection is not required. You can run a remote desktop on a low bandwidth Internet connection.

✖ When running a remote desktop on Windows XP Professional, you cannot use the operating system of your computer.

##### ▣ **Enabling Your Computer as the Host**

You must enable the Remote Desktop feature to control it from another computer. You must be logged on as an administrator or a member of the Administrators group to enable Remote Desktop on your computer. Follow these steps:

- Open the System folder in the Control Panel. Click Start, point to Settings, click Control Panel, and then double-click the System icon.
- On the Remote tab, select the "Allow users to connect remotely to this computer" checkbox.
- Ensure that you have the proper permissions to connect to your computer remotely, and click OK.

- Leave your computer running and connected to the client's network with Internet access.



#### ▣ Start a Remote Desktop Session on the Client

Once you have enabled your host computer to allow remote connections and installed the client software on a Windows-based client computer, you are ready to start a Remote Desktop session. You must first establish a virtual private network connection or remote access service connection from your client computer to your host computer.

1. Click Start, point to Programs, and then click Remote Desktop Connection. Or double-click the Remote Desktop Connection icon.

The Remote Desktop Connection window will open.

2. Enter the host computer name. You can configure detailed settings by clicking the Options button.

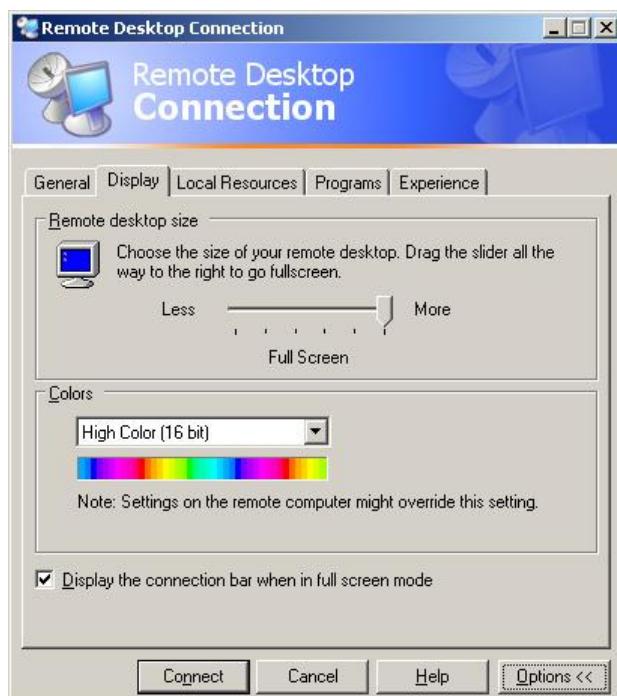


3. Options

- General: Enter the login information to connect to the host computer. Enter your username and password to login to the host automatically.



- Display: The Remote Desktop Connection sends and receives compressed screen data. If you set the resolution and color quality to the high option, the speed may become slow.



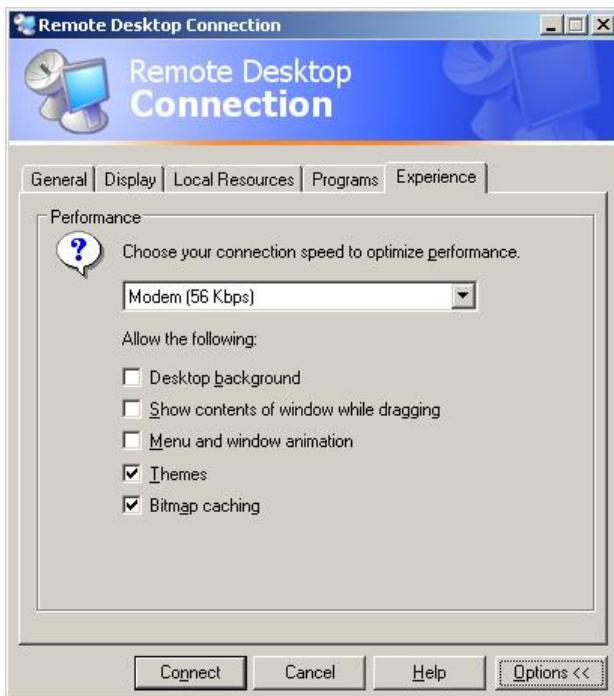
- Local Resource: Specify whether to use the hard disks and ports.



- Programs: Specify whether to display the Desktop or run an application whenever you are connected. The default is 'Desktop'.



- Experience: You can select your connection speed, and select and share environmental options.



4. Click Connect. The Log On to Windows dialog box appears.
5. In the "Log On to Windows" dialog box, type your username, password, and domain (if required), and then click OK. The Remote Desktop window will open and you will see the desktop settings, files, and programs that are on the host computer.

※ For more information on Remote Desktop Connections, visit the [Microsoft web site](#).

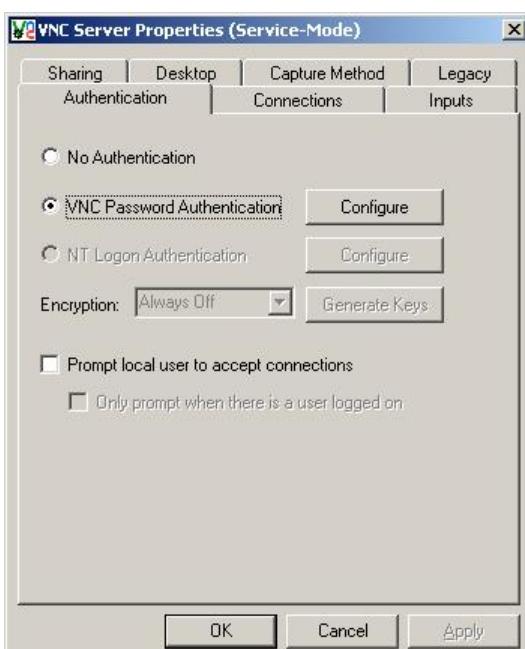
#### RealVNC Server

RealVNC (Virtual Network Computing) is a software program that allows you to connect to another computer on a network and control it remotely. Compared to the Windows terminal service which has a similar function, RealVNC allows only one administrator to connect to the server at a time. That is, if another is connected to the server as an administrator, the previous administrator connection will be disconnected.

In RealVNC, the server and the viewer communicate via the VNC protocol. You must install a RealVNC server on the computer you wish to control remotely, and a VNC viewer on the computer which remotely controls the computer where the RealVNC server is installed. Hence, the RealVNC server program is installed on a XPe client.

By using this program, you do not have to move directly to the client site to resolve its problems. Instead, you can connect to the client from the server and solve problems remotely. For this reason, RealVNC is being used very usefully.

Only administrators can configure the RealVNC server properties. To display the configuration dialog box for RealVNC, double-click the RealVNC icon in the system tray. From this dialog box, you can run a VNC server and configure a password and various properties. The default password is set to 'Administrator'. Note that it is case-sensitive.



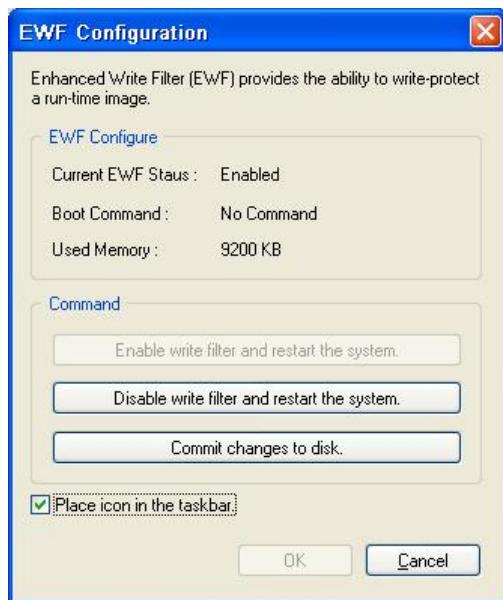
## Internet Explorer

A XPe Client includes Internet Explorer. This program is permitted for all users. For more information on Internet Explorer, visit the [Microsoft website](#).

## Enhanced Write Filter

Enhanced Write Filter (EWF) protects a flash volume from write access and consequently, preserves the durability of the flash device. EWF provides read and write access through a cache to the client instead of allowing direct access to a flash volume.

If EWF is activated, data is not stored to the flash. The data stored in the cache is only effective while the client is operating. The cached data will be lost when restarting or shutting down your client. Therefore, to store the data written to the registry, favorites and cookie folders, etc., the content stored in the cache should be transferred to the flash. An error message is displayed when it is not possible to write to the cache due to a lack of memory. If this message is displayed, you have to deactivate EWF to flush the EWF cache. The user can double-click the EWF icon on the tray at the bottom right of the screen to call the EWF Manager. A user can also change the EWF configuration by entering EWF management commands at the command prompt. This task requires the administrator privilege.



### Enable disk write protection and restart your computer

- If the EWF is disabled, enable it. If this item is selected, the cache is flushed and the EWF is enabled. After restarting your computer, the configurations and file system information for the client are written to a cache. You can also perform this operation by entering "ewfmgr.exe c: -enable" at the command prompt and restarting your computer.

### Disable disk write protection and restart your computer

- This item is activated when the EWF is running. If this item is selected, the current states of the client (saved in a cache) are saved to a flash volume and the EWF is disabled. After restarting your computer, the configurations and file system information for the client are written to a flash volume. You can also perform this operation by entering "ewfmgr.exe c: -commitanddisable" at the command prompt and restarting your computer.

### Write the changes to a disk

- This item is activated when the EWF is running. If this item is selected, the current states of the client (saved in a cache) are saved to a flash volume. However, the state of EWF will not be changed. You can also perform this operation by entering "ewfmgr.exe c: -commit" at the command prompt.

**※ You can view the configurations for the protected volumes by entering "ewfmgr.exe c:" at the command prompt.**

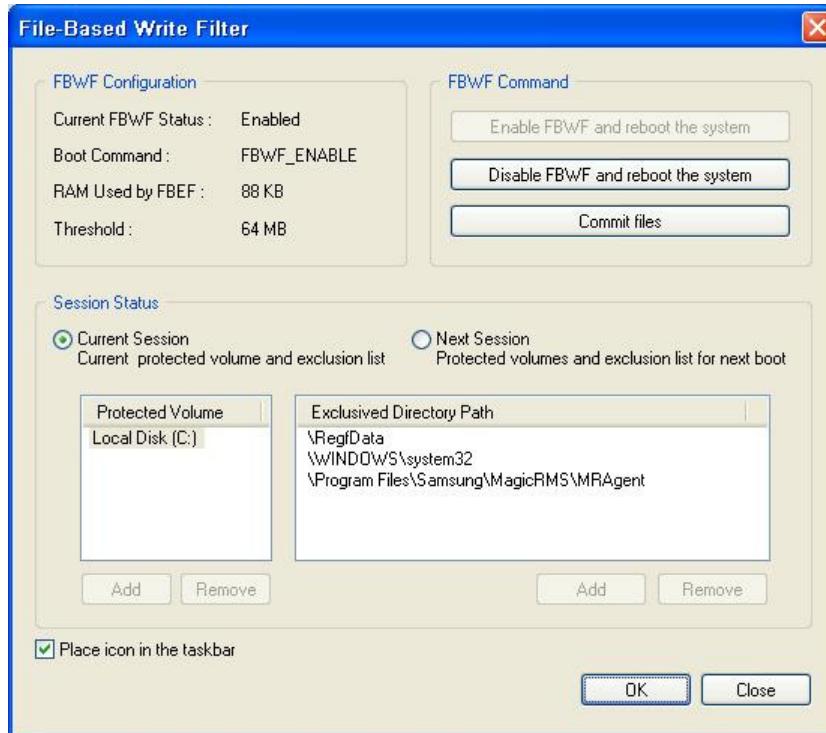
## File-Based Write Filter (FBWF)

The File-Based Write Filter (FBWF) protects the memory of the client from being overwritten by any unauthorized user. By restricting excessive writing into the memory, the FBWF allows you to use the client for a long time. If you request I/O, the FBWF has the client perform its operations using the cache instead of the memory so that the memory can be protected.

The data saved in the cache is preserved while the client operates normally. It is removed when it is restarted or exited. To save the changes, you should write the relevant file onto the disk using the commit command. If you don't know which file is changed, disable the FBWF, change it, and enable it

again.

You can control the FBWF using the various options of the fbfwmgr command at a command prompt.



#### Setting the FBWF

- Current FBWF status: Displays the current status of the FBWF (Enabled or Disabled).
- Boot command: Displays the FBWF command that will be performed at the next boot-up.
- Used memory: Displays the size of the RAM the FBWF is using. If the current status is set to "Disabled", the used memory is displayed as 0 KB.
- Maximum memory: Displays the maximum size of the RAM that the FBWF can use.

#### FBWF Command

- Enable the FBWF and restart the system: Enables the disabled FBWF and restarts the client. If the client is not restarted, only the boot command is changed to BWF\_ENABLE and the current status is not changed.
- Disable the FBWF and restart the system: Disables the enabled FBWF and restarts the client. If the client is not restarted, only the boot command is changed to BWF\_DISABLE and the current status is not changed.
- Write the changes to the disk: Even if the disks are protected by the FBWF, you can add or delete the files you want to save on them. To write the changes onto the disk, click the [Write the changes to the disk] button.

#### Session Status

- Current session: Displays the volumes being protected by the FBWF and a list of the folders and files on those volumes that are excepted from protection by the FBWF.
- Next session: Select the volumes that will be protected by the FBWF when the client is booted up next time. Also, select the folders and files that you want to except from protection by the FBWF.

#### Windows Media Player

The XPe Client includes Windows Media Player 6.4. With Windows Media Player, you can play audio and video files on a website.

#### Control Panel

##### The Windows Firewall

The Windows Firewall protect your client further. The Windows Firewall allows you to restrict incoming data to your client from other computers, thus helping to control your client data more effectively. In addition, it also provides a barrier between your client and network connections reducing unauthorized access, viruses,

and worms across networks.

You can think of a firewall as a sentinel which identifies incoming data from the Internet and other networks.

According to the firewall settings, incoming data to your computer is either permitted or rejected.

The Windows Firewall is, by default, installed and activated on your client. However, your administrator can turn it off. You can choose and select a different firewall. Therefore, it is not required for you to use the Windows Firewall. Estimate the functions of other firewalls and choose the best one to fit your requirements. To install and run a different firewall, you must turn off the Windows Firewall.

You must be logged on as administrator to turn the Windows Firewall on or off. Follow these steps to turn the Windows Firewall on or off.

1. Run the Windows Firewall.
2. Click on one of these options under the General tab.
  - o **On (recommended)** : This is the recommended setting for normal use.
  - o **On with no exceptions** : This setting blocks all unwanted access to your client, including all requests to programs and services selected in the Exceptions tab. Use this setting when you need to protect your client to the maximum extent.
  - o **Off (Not recommended)** : Turning off the Windows Firewall may make your client and network more vulnerable to viruses and intruders.

## Configuring Utilities

### Local Drive

#### C Drive

The C drive is used for the system. If there is less than 3MB of free space available, the client OS cannot operate. Therefore, always ensure that there is a sufficient amount of free space available. EWF can help maintain available space by preventing the C drive being written to directly.

#### Saving Files

Your client uses a fixed size of flash memory. Therefore, it is better to save files to the server rather than to your client.

### Mapping a Network Drive

The administrator can map a folder to a network drive. To keep the mapping information after restarting the client, take note of these directions carefully.

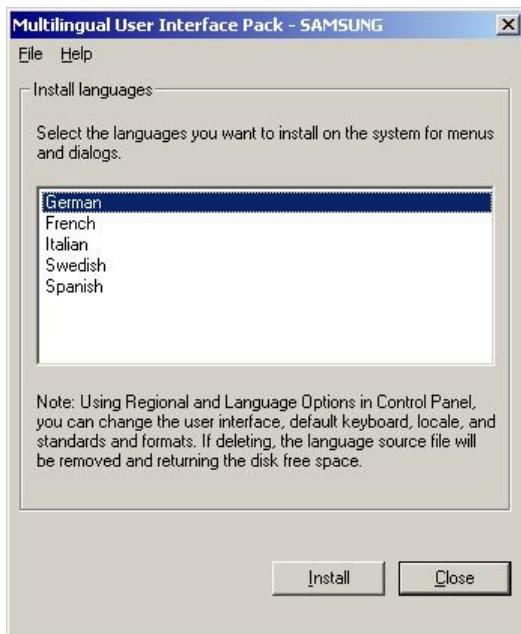
- Select the **Reconnect at logon** checkbox in the **Map Network Drive** dialog box.
- If the EWF or FBWF is enabled, the changes are saved on the disk.

### Installing MUI (Multi-language User Interface)

The MUI Setup program helps you set up languages on the XPe client. In addition, you can delete an original language pack to extend the available free disk space. If you want to change the default language, standards or formats, use the **Regional Options** in the Control Panel.

To add a language to your XPe client, follow these steps:

- Log on as an administrator.
- If the EWF or FBWF is enabled, you must disable it before beginning the installation.
- Click **Start** and click **Run**. Type **muisetup.exe** in the Open box and click **OK**. A list of languages that can be installed is displayed as shown below.
- Select the language you want to install and click **Install** from the **File** menu. The installation will begin.



You can delete an original language pack using the **Delete** menu in the **File** menu. This operation deletes the original language pack only and does not delete the copy installed on your XPe Client.

What is XPe Client? Logon Windows XP Embedded Desktop Programs Control Panel Configuring Utilities Recover the System

## Recover the System

### Overview

The XPe Client provides a recovery function which allows you to revert to a backed up system when encountering a serious problem. You can back up an OS image which is working normally to USB memory or the PXE server. You can revert to a backed up image when your client has one of these problems:

- ▣ When a system file is deleted accidentally or is corrupted
- ▣ When the client computer is unstable or there is a problem with a device driver
- ▣ When problems occur, after installing a new program or device
- ▣ When the client computer is infected with a virus
- ▣ When Windows XP Embedded fails to start

### How to Recover the System

#### Recovery Using USB Memory

By following these steps, you can save all necessary files to USB memory, and boot up with the backed up system on the USB memory and recover the system.

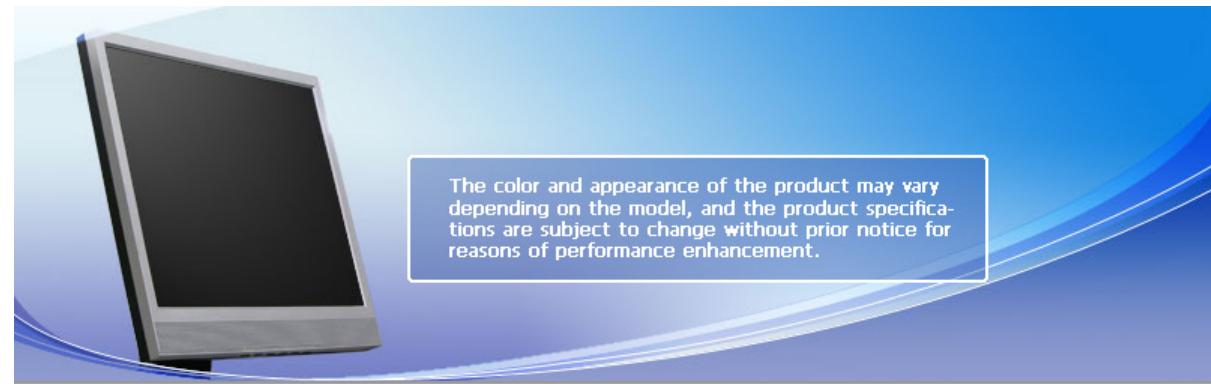
- Perform system formatting for your USB memory in order to make it bootable.
- Save the Windows XP Embedded image and the Backup/Recovery Utility which will be recovered later to your USB memory.
- Boot up with the USB memory.
- Recover the system using the Windows XP Embedded image and the Backup/Recovery Utility in the USB memory.

#### Recovery Using Network Booting

This method is provided through the PXE (Preboot eXecution Environment) server. The PXE server provides a client/server interface based on TCP/IP, DHCP, and TFTP. It allows an administrator at a remote location to configure and boot the operating system onto a client over a network.

- Implement a PXE server.
- Save the Windows XP Embedded image and the Backup/Recovery Utility which will be recovered later onto the PXE server.
- Boot the client via the network.
- Recover the system using the Windows XP Embedded image and the Backup/Recovery Utility saved on the PXE server via the network.

※ For more information, refer to the PXE Server User Manual.



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## Using the Software

Monitor Driver Natural Color MagicTune™

### Monitor Driver

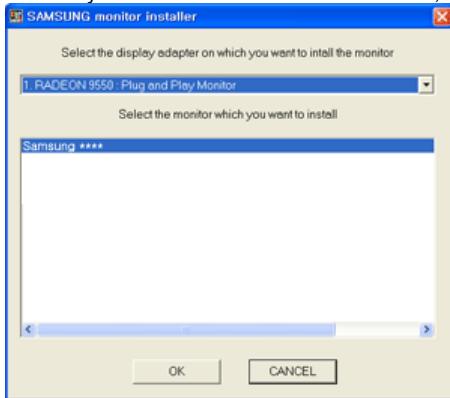
When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

Prepare a blank disk and download the driver program file at the Internet web site shown below.

Internet web site :  
<http://www.samsung.com/> (Worldwide)  
<http://www.samsung.com/monitor> (U.S.A)  
<http://www.sec.co.kr/monitor> (Korea)  
<http://www.samsungmonitor.com.cn/> (China)

#### Installing the Monitor Driver (Automatic)

- 1 Insert the CD into the CD-ROM drive.
- 2 Click "Windows".
- 3 Choose your monitor model in the model list, then click the "OK" button.



4

If you can see following message window, then click the "Continue Anyway" button. Then click the "OK" button (Microsoft® Windows® XP/2000 Operating System).



- ※ This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage

<http://www.samsung.com/>

- Monitor driver installation is completed.

#### ► **Installing the Monitor Driver (Manual)**

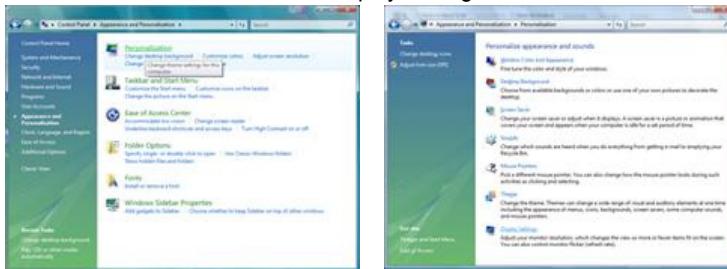
[Windows Vista](#) | [Windows XP](#) | [Windows 2000](#) | [Windows ME](#) | [Windows NT](#) | [Linux](#)

#### ► **Microsoft® Windows Vista™ Operating System**

- Insert your Manual CD into your CD-ROM drive.
- Click  (Start) and "Control Panel". Then, double-click on "Appearance and Personalization".



- Click "Personalization" and then "Display Settings".



- Click "Advanced Settings..."



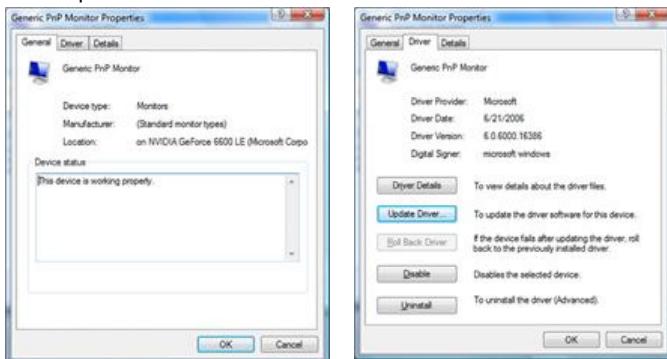
5 Click "Properties" in the "Monitor" tab. If the "Properties" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is. If the message "Windows needs..." is displayed, as shown in the figure below, click "Continue".



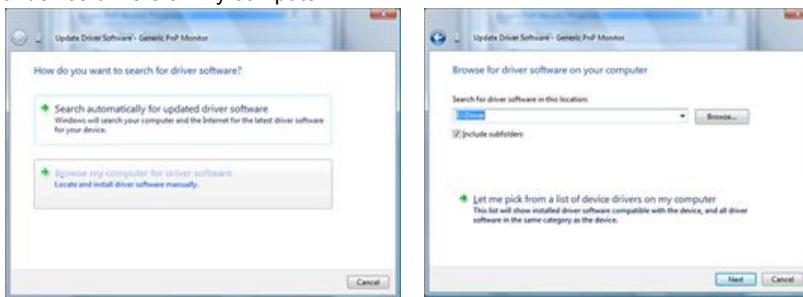
※ This monitor driver is under certifying MS logo, and this installation doesn't damage your system.  
The certified driver will be posted on Samsung Monitor homepage

<http://www.samsung.com/>

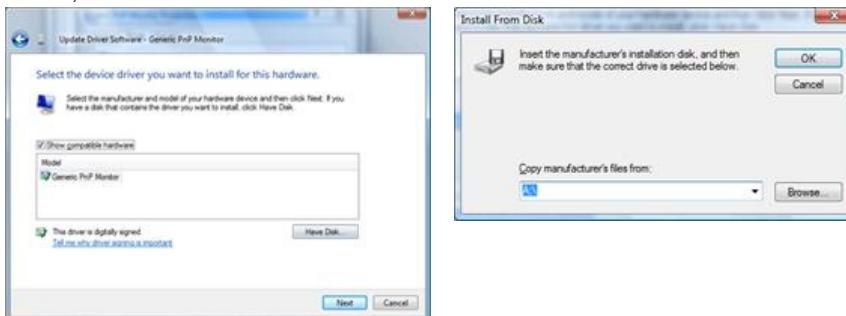
6 Click "Update Driver..." in the "Driver" tab.



7 Check the "Browse my computer for driver software" checkbox and click "Let me pick from a list of device drivers on my computer".

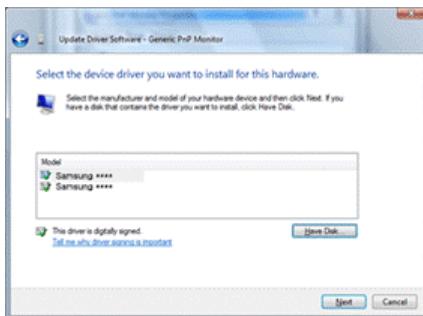


8 Click "Have Disk..." and select the folder (for example, D:\Drive) where the driver setup file is located, and click "OK".

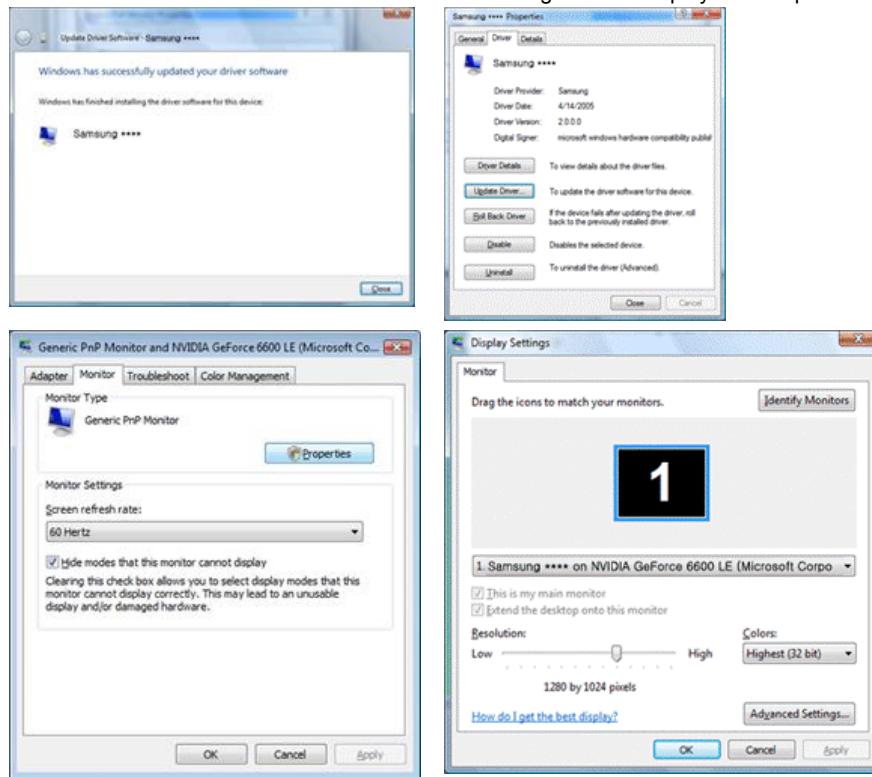


9

Select the model that matches your monitor from the list of monitor models on the screen, and click "Next".



⑩ Click "Close" → "Close" → "OK" → "OK" on the following screens displayed in sequence.

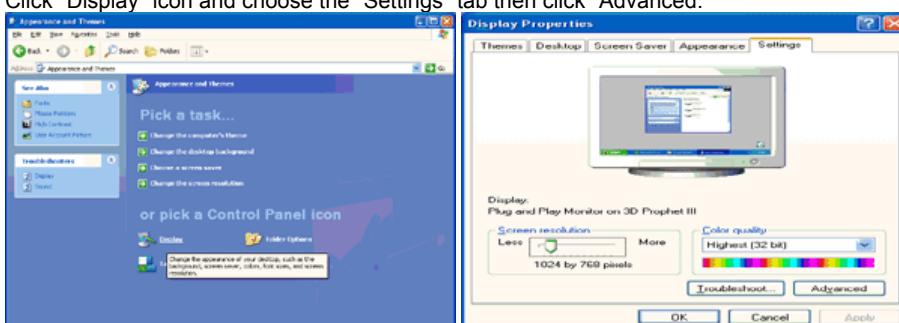


► Microsoft® Windows® XP Operating System 

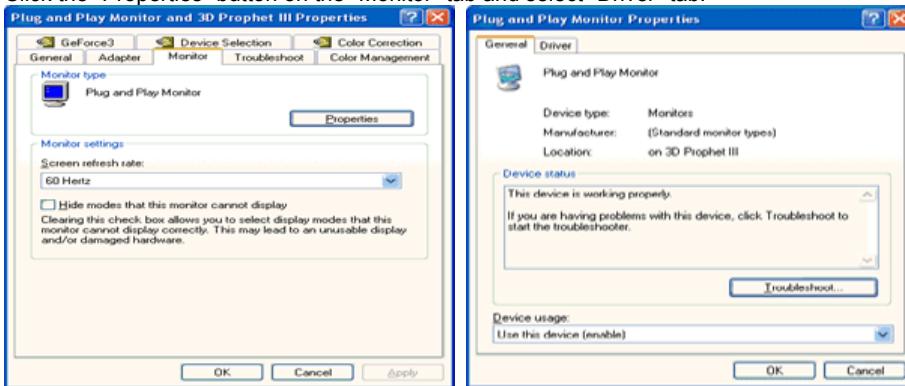
① Insert the CD into the CD-ROM drive.  
 ② Click "Start" → "Control Panel" then click the "Appearance and Themes" icon.



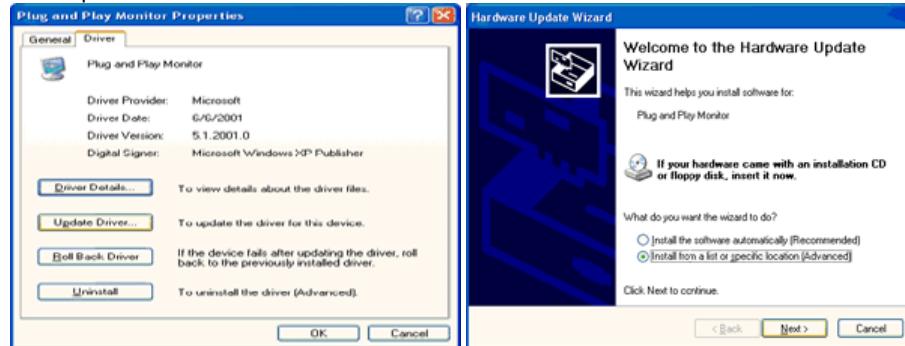
③ Click "Display" icon and choose the "Settings" tab then click "Advanced."



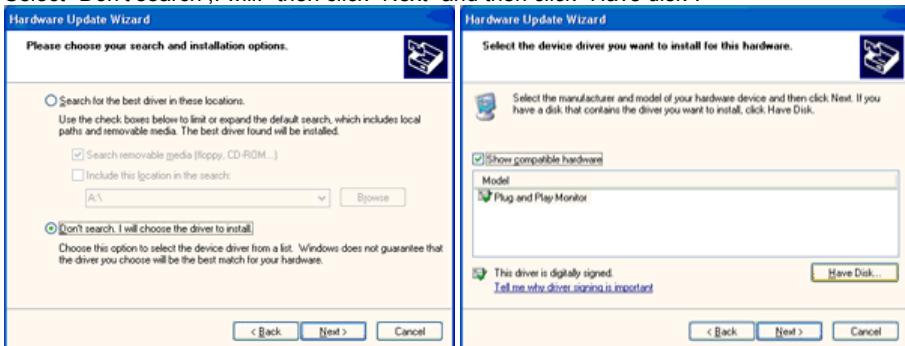
4 Click the "Properties" button on the "Monitor" tab and select "Driver" tab.



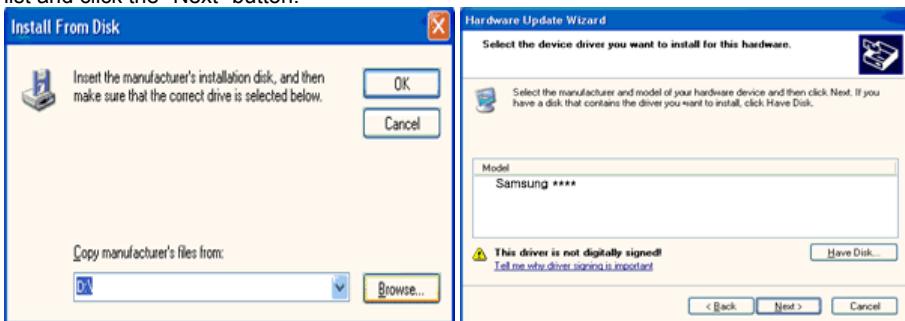
5 Click "Update Driver." and select "Install from a list or..." then click the "Next" button.



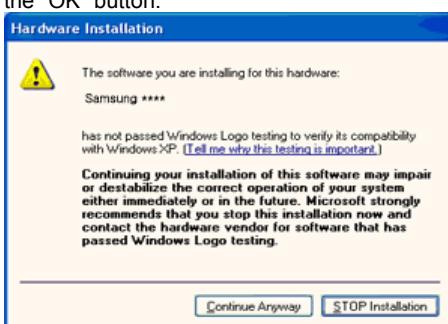
6 Select "Don't search ,I will." then click "Next" and then click "Have disk".



7 Click the "Browse" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "Next" button.



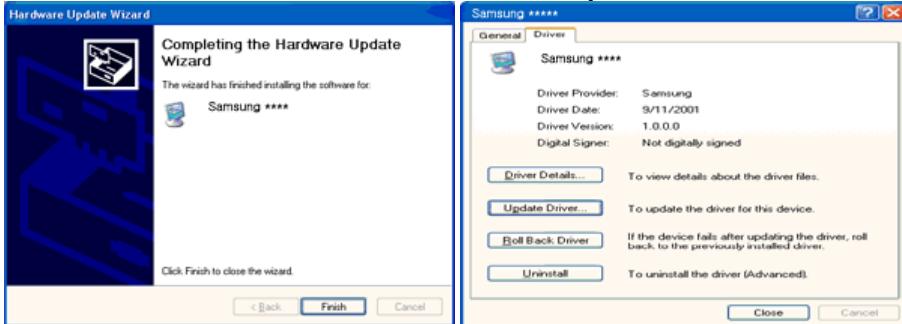
8 If you can see following "Message" window, then click the "Continue Anyway" button. Then click the "OK" button.



- ※ This monitor driver is under certifying MS logo, and this installation doesn't damage your system.  
The certified driver will be posted on Samsung Monitor homepage

<http://www.samsung.com/>

- Click the "Close" button then click the "OK" button continually.



- Monitor driver installation is completed.

#### Microsoft® Windows® 2000 Operating System



When you can see "Digital Signature Not Found" on your monitor, follow these steps.

- Choose the "OK" button on the "Insert disk" window.
- Click the "Browse" button on the "File Needed" window.
- Choose A:(D:\Driver) then click the "Open" button and then click the "OK" button.

How to install

- Click "Start," "Setting," and then "Control Panel."
- Double click the "Display" icon.
- Select the "Settings" tab and click the "Advanced Properties" button.
- Choose "Monitor."
- Case1 : If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation
- Case2 : If the "Properties" button is active, click the "Properties" button then follow next steps continually.
- Click "Driver" and then click "Update Driver." then click the "Next" button.
- Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
- Click the "Browse" button then choose A:(D:\Driver).
- Click the "Open" button, then click the "OK" button.
- Choose your monitor model and click the "Next" button then click "Next" button.
- Click the "Finish" button then the "Close" button.

If you can see the "Digital Signature Not Found" window then click the "Yes" button. And click the "Finish" button then the "Close" button.

#### Microsoft® Windows® Millennium Operating System

- Click "Start," "Setting," and then "Control Panel."
- Double click the "Display" icon.
- Select the "Settings" tab and click the "Advanced Properties" button.
- Select the "Monitor" tab.

- ⑤ Click the "Change" button in the "Monitor Type" area.
- ⑥ Choose "Specify the location of the driver."
- ⑦ Choose "Display a list of all the driver in a specific location." then click the "Next" button.
- ⑧ Click the "Have Disk" button.
- ⑨ Specify A:(D:\driver) then click the "OK" button.
- ⑩ Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
- ⑪ Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.

#### ▶ Microsoft® Windows® NT Operating System

- ① Click "Start," "Settings," "Control Panel," and then double-click "Display" icon.
- ② In the Display Registration Information window, click the Settings tab and then click "All Display Modes".
- ③ Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click "OK".
- ④ Click the "Apply" button if you see the screen working normally after clicking "Test". If the screen is not normal, change to a different mode (lower mode of resolution, colors, or frequency).

※ If there is no Mode at All Display Modes, select the level of resolution and vertical frequency by referring to the [Preset Timing Modes](#) in the user guide.

#### ▶ Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

- ① Press "Enter" at the first and the second screen after executing the X86Config file.
- ② The third screen is for setting your mouse.
- ③ Set a mouse for your computer.
- ④ The next screen is for selecting a keyboard.
- ⑤ Set a Keyboard for your computer.
- ⑥ The next screen is for setting your monitor.
- ⑦ First of all, set a horizontal frequency for your monitor. (You can enter the frequency directly.)
- ⑧ Set a vertical frequency for your monitor. (You can enter the frequency directly.)
- ⑨ "Enter" the model name of your monitor. This information will not affect the actual execution of X-Window.
- ⑩ You have finished setting up your monitor.

Execute X-Window after setting other requested hardware.

Monitor Driver [Natural Color](#) [MagicTune™](#)

## ▶ Natural Color

### ▶ Natural Color



One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the

monitor.

the Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI).

This is only available for Samsung monitors and ensures that the color of the images on the monitor are the same as the printed or scanned images.

For more information, refer to Help (F1) in the software program.

#### ► **Installing the Natural Color Software**

Insert the CD included with the Samsung monitor into the CD-ROM Drive. The initial Natural Color screen will appear. Click on Natural Color in the startup window to install the Natural Color software. To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the Windows **[Start]** button, select **[Run...]**.

Enter D:\Color\NCProSetup.exe and then press the <Enter> key.  
(If the drive where the CD is inserted is not D:\, enter the applicable drive.)

#### ► **Uninstalling the Natural Color Software Program**

Select **"Settings" / "Control Panel"** from the **"Start"** menu and then double-click **"Add/Delete a program"**

Select Natural Color from the list and then click the "Add/Delete" button.

Monitor Driver    Natural Color    **MagicTune™**

## ► **MagicTune™**

# ■■■ Installation

1. Insert the installation CD into the CD-ROM drive.
2. Click the MagicTune™ installation file.
3. Select installation Language, Click "Next".
4. When the Installation Shield Wizard window appears, click "Next."
5. Select "I agree to the terms of the license agreement" to accept the terms of use.
6. Choose a folder to install the MagicTune™ program.
7. Click "Install."
8. The "Installation Status" window appears.
9. Click "Finish."
10. When the installation is complete, the MagicTune™ executable icon appears on your desktop.

Double-click the icon to start the program.



MagicTune™ execution icon may not appear depending on specification of computer system or monitor.  
If that happens, press F5 Key.

## ?

### **Installation Problems (MagicTune™)**

The installation of MagicTune™ can be affected by such factors as the video card, motherboard and the network environment.

## !

### **System Requirements**

#### **OS**

- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™



**It is recommended using MagicTune™ in Windows® 2000 or later.**

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## Hardware

- 32MB Memory above
- 60MB Hard disk space above

\* For more information, visit the MagicTune™ [website](#).

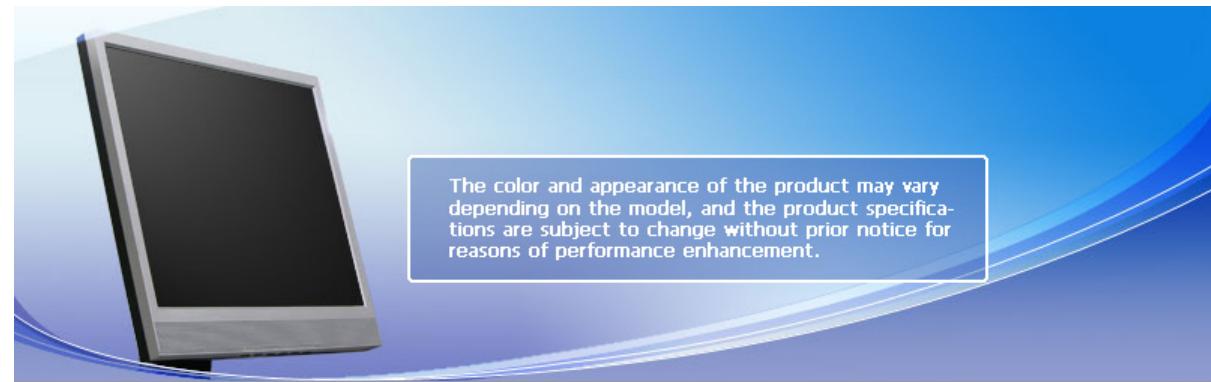
## **Uninstall**

The MagicTune™ program can be removed only by using the "Add or Remove Programs" option of the Windows® Control Panel.

Perform the following steps remove MagicTune™.

1. Go to [Task Tray] ' [Start] ' [Settings] and select [Control Panel] in the menu. If the program runs on Windows® XP, go to [Control Panel] in the [Start] menu.
2. Click the "Add or Remove Programs" icon in Control Panel.
3. In the "Add or Remove Programs" screen, scroll down to find "MagicTune™". Click on it to highlight it.
4. Click the "Change/Remove" button to remove the program.
5. Click "Yes" to begin the uninstall process.
6. Wait until the "Uninstall Complete" dialog box appears.

Visit the MagicTune™ [website](#) for technical support for MagicTune™, FAQs (questions and answers) and software upgrades.



The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

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## ① Adjusting the Monitor

Control Buttons Direct Functions OSD Function

### Control Buttons



- ① [MENU / ] Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
- ② [▼/▲] These buttons allow you to adjust items in the menu.
- ③ [ ] Press this button to Activates a highlighted menu item.
- ④ [AUTO] When the 'AUTO' button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center.

Control Buttons Direct Functions OSD Function

### Direct Functions

AUTO



#### Menu

#### Description

When the 'AUTO' button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center.  
The values of fine, coarse and position are adjusted automatically.

※ Available in analog Mode Only

#### AUTO

- ▶ If auto adjustment does not work properly, press 'AUTO' button again to adjust picture with more accuracy.
- ▶ If you change resolution in the control panel, auto function will be executed automatically.

#### ▣ OSD Lock & Unlock

▣ In case of pushing AUTO button after locking OSD



▣ In case of pushing MENU button after locking OSD



#### Menu

#### Description

This is the function that locks the OSD in order to keep the current states of settings or prevent others from adjusting the current settings.

**Lock** : Hold down the menu button for more than five (5) seconds to activate the OSD adjustment lock function.

#### OSD Lock & Unlock

**Unlock** : Hold down the menu button for more than five (5) seconds to deactivate the OSD adjustment lock function.

※ Though the OSD adjustment lock function is activated, you can still adjust the brightness and contrast, and adjust Customized Key (■) using the Direct button.

#### ■ Customized key



#### Menu

#### Description

You can customize key assignment for the Custom button according to your preferences.

#### ■ Customized key

To view the operating screen displayed when pressing the [■] button after configuring the customized key for a function, click the name of each function.

([MagicBright](#) - [MagicColor](#) - [Color Effect](#))

※ You can configure the customized key for a required function via **Setup > Customized Key**.

## ▶ Volume



### Menu

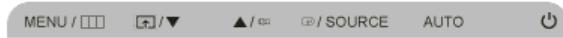
### Description



Volume

When OSD is not on the screen, push [**▲/□**] the button to adjust volume.

## ▶ SOURCE



### Menu

### Description

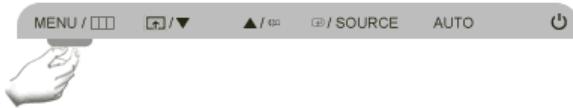
SOURCE

Selects the Video signal while the OSD is off. (Analog/Client)

## OSD Function

 Picture	Brightness	Contrast	MagicBright				
 Color	MagicColor	Color Tone	Color Control		Color Effect	Gamma	
 Image	Coarse	Fine	Sharpness		H-Position	V-Position	
 OSD	Language	H-Position	V-Position		Transparency	Display Time	
 Setup	Reset	Customized Key					
 Information							

### Picture



Menu	Description	Play/Stop
Brightness	You can use the on-screen menus to change the brightness according to personal preference.  MENU →  →  →  ,  → MENU	 
Contrast	You can use the on-screen menus to change the contrast according to personal preference. ( <a href="#">Not available in MagicColor mode of Full and Intelligent.</a> )  MENU →  →  ,  →  →  ,  → MENU	 
MagicBright	<p>Push the  button to circle through available preconfigured modes.</p> <p><b>MagicBright</b> is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently seven different modes are available: <b>Custom, Text, Internet, Game, Sport, Movie and Dynamic Contrast</b>. Each mode has its own pre-configured brightness value. You can easily select one of seven settings by simply pressing <b>Customized Key</b> control button.</p> <p>① Custom     Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste.</p> <p>If this is the case, adjust the brightness and contrast by using the OSD menu.</p> <p>② Text     For documentations or works involving heavy text.</p>	 

- ③ Internet For working with a mixture of images such as texts and graphics.
- ④ Game For watching motion pictures such as a game.
- ⑤ Sport For watching motion pictures such as a sport.
- ⑥ Movie For watching motion pictures such as a DVD or Video CD.
- ⑦ Dynamic Contrast Dynamic Contrast is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.

MENU →  → ,  →  → ,  → MENU

  Color 



Menu

Description

Play/Stop

MagicColor is a new technology that Samsung has exclusively developed to improve digital image and to display natural color more clearly without disturbing image quality.

MagicColor

- ① Off Returns to the original mode.
- ② Demo The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left.
- ③ Full Displays not only vivid natural color but also more realistic natural skin color with clearness.
- ④ Intelligent Displays vivid natural color with clearness.



Color Tone

The tone of the color can be changed and one of four modes can be selected -Cool, Normal, Warm and Custom.  
( Not available in MagicColor mode of Full and Intelligent. )



Color Control

Adjusts individual Red, Green, Blue color balance. - Red, Green, Blue  
( Not available in MagicColor mode of Full and Intelligent. )



MENU → ,  →  →  → ,  →  →  →  →  → MENU

You can change the overall mood by changing the screen colors.

( Not available in MagicColor mode of Full and Intelligent. )

- Off
- Grayscale
- Green

- Aqua  
- Sepia

Color Effect	<p>① Off This applies an achromatic color to the screen to adjust the screen effects.</p> <p>② Grayscale The default colors of black and white are displayed.</p> <p>③ Green This applies the green color effect to a black and white screen.</p> <p>④ Aqua This applies the aqua color effect to a black and white screen.</p> <p>⑤ Sepia This applies the Sepia color effect to a black and white screen.</p>	
--------------	---	---

MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

Gamma correction changes the luminance of the colors with intermediate luminance.

Gamma

- Mode 1
- Mode 2
- Mode 3



MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

  Image 



( Not available in MagicColor mode of Full and Intelligent. )

Menu	Description	Play/Stop
Coarse	Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu.	
	※ Available in analog Mode Only	
Fine	MENU → ▲, ▼ → [ ] → ▲, ▼ → MENU	
	Removes noise such as horizontal stripes. If the noise persists even after fine tuning, repeat it after adjusting the frequency (clock speed).	
Sharpness	Changes the clearance of image.	

MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU



Changes the horizontal position of the monitor's entire display.

H-Position

✖ Available in analog Mode Only



MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

Changes the vertical position of the monitor's entire display.

V-Position

✖ Available in analog Mode Only



MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

✖ OSD ▲



Menu

Description

Play/Stop

You can choose one of nine languages.

- English, Deutsch, Español, Français, Italiano, Svenska, Русский, Português, Türkçe

Language

✖ The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.



MENU → ▲, ▼ → [ ] → ▲, ▼ → MENU

H-Position

You can change the horizontal position where the OSD menu appears on your monitor.



MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

V-Position

You can change the vertical position where the OSD menu appears on your monitor.



MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

Transparency

Change the transparency of the background of the OSD.



MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

Display Time

The menu will be automatically turned off if no adjustments are made for a certain time period.

You can set the amount of time the menu will wait before it is turned off.

- 5 Sec, 10 Sec, 20 Sec, 200 Sec



MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU

  **Setup** 



Menu

Description

Play/Stop

Reverts the product settings to factory defaults.

Reset

- No
- Yes



MENU → ▲, ▼ → [ ] → [ ] → ▲, ▼ → MENU

Customized Key

You can specify a function which will be activated when the **Customized Key** (▲) is pressed.

MENU → ▲, ▼ → [ ] → ▲, ▼ → [ ] → ▲, ▼ → MENU



  **Information** 



Menu

Description

Information

Shows a video source, display mode on the OSD screen.

MENU → ▲, ▼





The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

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## ○ Troubleshooting

Check List      Q & A      Self-Test

### ▶ Check List

Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the [phone number on the Information section or contact your dealer](#).

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?  Can you see "Check Signal Cable" on the screen?  If the power is on, reboot the computer to see the initial screen(the login screen), which can be seen.	Check the power cord connection and supply.  Check the signal cable connection.  If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card. (Refer to the <a href="#">Preset Timing Modes</a> )  If the initial screen (the login screen) does not appear, <a href="#">contact the Service Center or your dealer</a> .
Can you see "Not Optimum Mode", "Recommended Mode 1280 x 1024 60 Hz" on the screen?		You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.  Adjust the maximum resolution and frequency that the monitor can handle properly.
		If the display exceeds SXGA or 75 Hz, a "Not Optimum Mode", "Recommended Mode 1280 x 1024 60 Hz" message is displayed. If the display exceeds 85 Hz, the display will work properly but the "Not Optimum Mode", "Recommended Mode 1280 x 1024 60 Hz" message appears for one minute and then disappears. Please change to the recommended mode during this one-minute period. ( The message is displayed again if the system is rebooted. )
There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?		The monitor is in PowerSaver mode.  Press a key on the keyboard to activate the monitor and restore the image on the screen.  If there is still no image, press the 'SOURCE' button. Then press any key on the keyboard again to activate the monitor and restore the image on the screen.

I cannot see the On Screen Display.	Have you locked the On Screen Display (OSD) Menu to prevent changes?	Unlock the OSD by pressing the [ <b>MENU / □□</b> ] button for at least 5 seconds.
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in its slot.
	Have the screen colors become strange after running a program or due to a crash between applications?	Reboot the computer.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
The screen suddenly has become unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency to the monitor?	Adjust the resolution and frequency at the video card. (Refer to the <a href="#">Preset Timing Modes</a> ).
	The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.	
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the <a href="#">Preset Timing Modes</a> ).
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	Adjust the frequency properly by referring to the video card manual and the <a href="#">Preset Timing Modes</a> .  ( The maximum frequency per resolution may differ from product to product. )
There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.	Have the Windows colors been set properly?	Windows XP : Set the resolution at the Control Panel → Appearance and Themes → Display → Settings.  Windows ME/2000 : Set the resolution at the Control Panel → Display → Settings.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the <a href="#">Driver Installation Instructions</a> .
	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	Install the monitor driver according to the <a href="#">Driver Installation Instructions</a> .
Check when MagicTune™ does not function properly.	MagicTune™ feature is found only on PC (VGA) with Window OS that supports Plug and Play.	* To check whether your PC is available for MagicTune™ feature, follow the steps below (When Windows™ is XP);  Control Panel → Performance and Maintenance → System → Hardware → Device Manager → Monitors → After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.
	MagicTune™ is an additional software for the monitor.	

Some graphic cards may not support your monitor.  
When you have a problem with the graphic card, visit our website to check the compatible graphic card list provided.  
<http://www.samsung.com/monitor/magictune>

MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded <a href="http://www.samsung.com/monitor/magictune">http://www.samsung.com/monitor/magictune</a>
	Did you install the program?	Reboot the computer after installing the program for the first time. If a copy of the program is already installed, remove it, reboot the computer, and then install the program again. You need to reboot the computer for it to operate normally after installing or removing the program.

※ Visit the MagicTune™ website and download the installation software for MagicTune™ MAC.

▣ Check the following items if there is trouble with the monitor.

Symptom	Solutions
The screen does not appear when I switch to the Client Mode.	When booting up, it takes about 30 seconds for the networking functions to be activated and no screen is displayed for about 3 to 4 seconds. Wait 30 seconds after the power is turned on, and try to switch modes again.  If the operating system does not boot up due to damage to Windows or a blue screen is displayed, download the Windows XPe OS from this site and recover your operating system with it : <a href="http://www.syncsight.com">http://www.syncsight.com</a>
The client screen appears, but I cannot connect to the server.	1) Check if the Hub port LED to which the LAN cable is connected blinks. If not, that indicates that the LAN connection is disconnected. In this case, connect using another LAN cable.  2) Check if the settings of the 'Settings', 'Network' tab are properly set up. The default setting is "DHCP". If your network uses a static IP address, select 'Use the following IP address' and then enter the appropriate IP address information.  3) Check if the 'User Name' and 'Password' set in the 'Remote Desktop' tab of 'Settings' are the same as those of the host PC. If not, match the 'User Name' and 'Password' of the 'Remote Desktop' with those of the host PC.
I cannot access the Internet in the Client screen.	1) Check if the Hub port LED to which the LAN cable is connected blinks. If not, that indicates that the LAN connection is disconnected. In this case, connect using another LAN cable.  2) Check if the settings of the 'Network' tab of 'Settings' have been properly set up. The default setting is "DHCP". If your network uses a static IP address, select 'Use the following IP address' and then enter the appropriate IP address information.
The contents (video, voice) on the server do not play smoothly on the Client Monitor.	This is because the data is transmitted over the LAN. Check your LAN connection status.
I have connected a digital device such as a digital camera, camcorder or USB memory to the USB port, but they do not work.	This model supports USB devices that support removable disk functions without an additional driver installation. Check if the device you want to connect to is a device that supports the removable disk function without an additional driver installation.
The file list does not appear.	1) Check the files on the card. If only abnormal files (e.g. 0KByte, broken JPEG) exist, the files do not appear on the screen.  2) The time required to display is determined by the size of the file. Wait a moment.  3) Check if the format of the file is supported by the Client Monitor. If the extension of the file has been changed, the file will not be played.

▣ **Check the following items if there is trouble with the monitor.**

- ▣ Check if the power cord and the video cables are properly connected to the computer.
- ▣ Check if the computer beeps more than 3 times when booting.  
(If it does, request an a service for the main board of the computer.)
- ▣ If you installed a new video card or if you assembled the PC, check if the installed the adaptor(video) driver and the monitor driver.
- ▣ Check if the scanning ratio of the video screen is set at 56 Hz ~ 75 Hz.  
(Do not exceed 75 Hz when using the maximum resolution.)
- ▣ If you have problems in installing the adaptor (video) driver, boot the computer in Safe Mode, remove the Display adaptor at the "Control Panel → System → Device Administrator" and then reboot the computer to reinstall the adaptor (video) driver.

※ If problems repeatedly occur, contact an authorized service center.

[Check List](#)   [Q & A](#)   [Self-Test](#)

**Q & A**

Question

Answer

How can I change the frequency?  
Frequency can be changed by reconfiguring the video card.  
Note that video card support can vary, depending on the version of the driver used.  
(Refer to the computer or the video card manual for details.)

How can I adjust the resolution?  
Windows XP :  
Set the resolution at the Control Panel → Appearance and Themes → Display → Settings.  
Windows ME/2000 :  
Set the resolution at the Control Panel → Display → Settings.

※ Contact the video card manufacturer for details.

How can I set the Power Saving function?  
Windows XP :  
Set the resolution at the Control Panel → Appearance and Themes → Display → Screen Saver.  
Set the function at BIOS-SETUP of the computer.  
Windows ME/2000 :  
Set the resolution at the Control Panel → Display → Screen Saver.  
Set the function at BIOS-SETUP of the computer.

※ Refer to Windows/Computer Manual

How can I clean the outer case/LCD Panel?  
Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water.  
Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

[Check List](#)   [Q & A](#)   [Self-Test](#)

**Self-Test**

[Self-Test Feature Check](#) | [Warning Messages](#) | [Environment](#) | [Useful Tips](#)

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

#### ► Self-Test Feature Check

- 1 Turn off both your computer and the monitor.
- 2 Unplug the video cable from the back of the computer.
- 3 Turn on the monitor.

If the monitor is functioning properly, you will see a box in the illustration below.



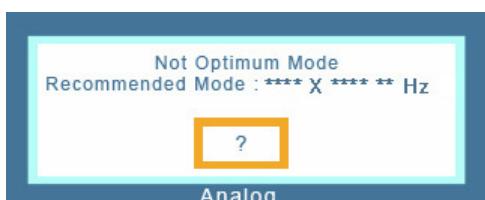
This box appears during normal operation if the video cable becomes disconnected or damaged.

- 4 Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

#### ► Warning Messages

If there is something wrong with the input signal, a message appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.



#### ► Environment

- The location and the position of the monitor may influence the quality and other features of the monitor.
  - If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.  
Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

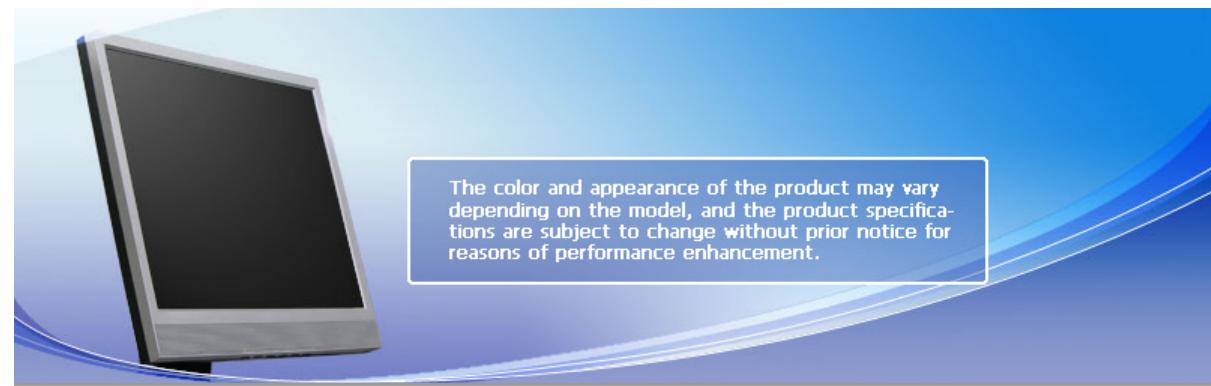
#### ► Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, Video mode not supported, etc. In this case, first check the source of the problem, and then contact the Service Center or your dealer.

#### ► Judging the monitor's working condition

If there is no image on the screen or a "Not Optimum Mode", "Recommended Mode 1280 x 1024 60 Hz" message comes up, disconnect the cable from the computer while the monitor is still powered on.

- If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.  
In this case, check the computer for trouble.



The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

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## Specifications

Specifications PowerSaver Preset Timing Modes

### Specifications

#### General

Model Name SyncMaster 730XT

#### LCD Panel

Size 17 " Diagonal (43 cm )

Display area 337.92 mm (H) x 270.336 mm (V)

Pixel Pitch 0.264 mm (H) x 0.264 mm (V)

#### Synchronization

Horizontal 30 ~ 81 kHz

Vertical 56 ~ 75 Hz

#### Display Color

16.2 M Colors

#### Resolution

Optimum resolution 1280 x 1024@60 Hz

Maximum resolution 1280 x 1024@75 Hz

#### Input Signal, Terminated

RGB Analog  
0.7 Vp-p ± 5 %  
TTL level (V high ≥ 2.0V, V low ≤ 0.8V)

#### Maximum Pixel Clock

140 MHz

#### Power Consumption

AC 100 - 240V~ (+/- 10 %), 50/60 Hz

## Signal Cable

15pin to 15pin D-sub cable, Detachable

#### Dimensions (W x H x D) / Weight

370.0 x 342.3 x 69 mm / 14.6 x 13.5 x 2.7 inch (Without Stand)  
370.0 x 404.3 x 200 mm / 14.6 x 15.9 x 7.9 inch (With Basic Stand), 6.45 Kg / 14.2 (lbs)

## VESA Mounting Interface

100 mm x 100 mm

## Environmental considerations

Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity : 10 % ~ 80 %, non-condensing
Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing

## Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

### Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1 ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

For example, the number of TFT LCD sub pixels that is contained in this product are 3,932,160.

※ Design and specifications are subject to change without prior notice.

## ► Class B Equipment (Information Communication equipment for residential use)

- This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas.

(Class B equipment emits less electromagnetic waves than Class A equipment.)

## Client

Item	Specifications
LAN	1 Gbps
USB	2.0 4Ports
Internet Browser	MS Internet Explorer
Photo	JPEG,BMP
Video	MPEG1,WMV (Not exceeding 720p)

## ► Server Requirement

	Connect Client No	CPU	RAM	Ethernet	OS
Minimum SPEC	Just can load Server Program	P3 400 MHz	64 Mbyte	100 Mbps	windows 2003 Server

Recommend SPEC	1	P4 1.0 GHz	256 Mbyte			
	2~4	P4 2.4 GHz	512 Mbyte	100 Mbps		windows 2003 Server
	5~7	P4 3.0 GHz	1 Gbyte			
	8~10	P4 3.2 GHz	2 Gbyte			

※ The content presented above is the result of testing a specific server. The information may change as the server may be different. For some products, the OS may not be supported. When purchasing a product, make sure to check whether or not the OS is supported.

## ▣ USB

### Local Device (USB) Connection Speed

When booting up a monitor, a blank screen may appear for 3 ~ 4 seconds until the MagicNet screen appears.

If you turn the monitor off while booting, it may damage the product.

### Local Device (USB) compatibility

HID(Human Interface Devices) : Keyboard, Mouse

MSC(Mass Storage Class), Devices using the SCSI(Small Computer System Interface) command set, FAT(File Allocation Table) System

### Exception

Some manufacturers have wrongly specified their device to be USB standard compatible.

Our product has exception handling procedures.

But Some devices are unlikely to work properly.

Some manufacturers have wrongly specified their device to be SCSI compatible.

Such devices are unlikely to work properly.

It is recommended that USB devices are purchased after they are tested and confirmed to be compatible.

Specifications    PowerSaver    Preset Timing Modes

## ▶ PowerSaver

▣ This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a Power Key of the Function Key. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power saving mode	Power off (Power button) EPA/ENERGY 2000
Power Indicator	Green	Black	Black
Power Consumption	Less than 70 W	Less than 4.7 W	Less than 2.7 W

This monitor is EPA ENERGY STAR® compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPM functionality.

As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

This product is compliant with ENERGY STAR requirements for Integrated computers.



## ▶ Preset Timing Modes

- If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

### ◻ Preset Timing Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

### Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit : kHz



### Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit : Hz



The color and appearance of the product may vary depending on the model, and the product specifications are subject to change without prior notice for reasons of performance enhancement.

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## ● Specifications

### Specifications PowerSaver Preset Timing Modes

## ► Specifications

## General

Model Name SyncMaster 930XT

## LCD Panel

Size 19 inch(48cm)

Display area 376.32mm(H) x 301.056mm(V)

Pixel Pitch 0.294(H) x 0.294(V)

## Synchronization

Horizontal 30 ~ 81 kHz

Vertical 56 ~ 75 Hz

### Display Color

16.7M

## Resolution

Optimum resolution 1280x1024@60 Hz

Maximum resolution 1280x1024@75 Hz

### Input Signal, Terminated

RGB Analog  
0.7 Vp-p  $\pm$  5 %  
separate H/V sync, Composite,  
TTL level (V high  $\geq$  2.0V, V low  $\leq$  0.2V)

### Maximum Pixel Clock

135 MHz (Analog)

## Power Consumption

AC 100 - 240V~ (+/- 10 %), 50/60 Hz

## Signal Cable

15pin-to-15pin D-sub cable, Detachable

Dimensions (W x H x D) / Weight

416.6 X 375.2 X 74.7 mm / 16.4 x 14.8 x 2.9 inch (Without Stand)  
416.6 X 420.9 X 200.0 mm / 16.4 x 16.6 x 7.9 inch (With Stand) / 6.9 Kg / 15.2 (lbs)

VESA Mounting Interface

100 mm x 100 mm (For use with Specialty(Arm) Mounting hardware.)

Environmental considerations

Operating                    Temperature : 50°F ~ 104°F (10°C ~ 40°C)  
                                  Humidity : 10 % ~ 80 %, non-condensing

Storage                    Temperature : -4°F ~ 113°F (-20°C ~ 45°C)  
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Specifications PowerSaver Preset Timing Modes

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## ▶ Preset Timing Modes

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MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
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VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+

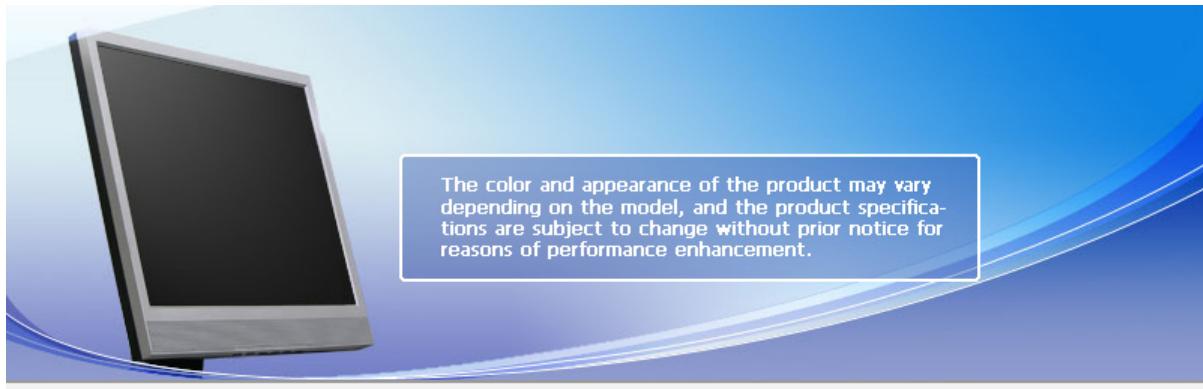
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### ► Contact SAMSUNG WORLDWIDE

※ If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

#### North America

U.S.A	1-800-SAMSUNG (726-7864)	<a href="http://www.samsung.com/us">http://www.samsung.com/us</a>
CANADA	1-800-SAMSUNG (726-7864)	<a href="http://www.samsung.com/ca">http://www.samsung.com/ca</a>
MEXICO	01-800-SAMSUNG (726-7864)	<a href="http://www.samsung.com/mx">http://www.samsung.com/mx</a>

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ARGENTINE	0800-333-3733	<a href="http://www.samsung.com/ar">http://www.samsung.com/ar</a>
BRAZIL	0800-124-421 4004-0000	<a href="http://www.samsung.com/br">http://www.samsung.com/br</a>
CHILE	800-SAMSUNG(726-7864)	<a href="http://www.samsung.com/cl">http://www.samsung.com/cl</a>
COLOMBIA	01-8000112112	<a href="http://www.samsung.com/co">http://www.samsung.com/co</a>
COSTA RICA	0-800-507-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
ECUADOR	1-800-10-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
EL SALVADOR	800-6225	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
GUATEMALA	1-800-299-0013	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
HONDURAS	800-7919267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
JAMAICA	1-800-234-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
NICARAGUA	00-1800-5077267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
PANAMA	800-7267	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
PUERTO RICO	1-800-682-3180	<a href="http://www.samsung.com/latin">http://www.samsung.com/latin</a>
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SWEDEN	0771-400 200	<a href="http://www.samsung.com/se">http://www.samsung.com/se</a>
SWITZERLAND	0800-SAMSUNG(726-7864)	<a href="http://www.samsung.com/ch">http://www.samsung.com/ch</a>
U.K	0845 SAMSUNG (7267864)	<a href="http://www.samsung.com/uk">http://www.samsung.com/uk</a>
CIS		
ESTONIA	800-7267	<a href="http://www.samsung.ee">http://www.samsung.ee</a>
LATVIA	8000-7267	<a href="http://www.samsung.com/lv">http://www.samsung.com/lv</a>
LITHUANIA	8-800-77777	<a href="http://www.samsung.lt">http://www.samsung.lt</a>
KAZAKHSTAN	8-10-800-500-55-500	<a href="http://www.samsung.com/kz_ru">http://www.samsung.com/kz_ru</a>
KYRGYZSTAN	00-800-500-55-500	
RUSSIA	8-800-555-55-55	<a href="http://www.samsung.ru">http://www.samsung.ru</a>
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UKRAINE	8-800-502-0000	<a href="http://www.samsung.ua">http://www.samsung.ua</a>
UZBEKISTAN	8-10-800-500-55-500	<a href="http://www.samsung.com/kz_ru">http://www.samsung.com/kz_ru</a>
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AUSTRALIA	1300 362 603	<a href="http://www.samsung.com/au">http://www.samsung.com/au</a>
CHINA	800-810-5858	<a href="http://www.samsung.com/cn">http://www.samsung.com/cn</a>
	400-810-5858 010- 6475 1880	
	HONG KONG:3698 - 4698	<a href="http://www.samsung.com/hk">http://www.samsung.com/hk</a>
INDIA	3030 8282 1-800-3000-8282 1800 110011	<a href="http://www.samsung.com/in">http://www.samsung.com/in</a>
INDONESIA	0800-112-8888	<a href="http://www.samsung.com/id">http://www.samsung.com/id</a>
JAPAN	0120-327-527	<a href="http://www.samsung.com/jp">http://www.samsung.com/jp</a>
MALAYSIA	1800-88-9999	<a href="http://www.samsung.com/my">http://www.samsung.com/my</a>
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## Terms

### Dot Pitch

- The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit : mm

### Vertical Frequency

- The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called the Vertical Frequency or Refresh Rate. Unit : Hz

Example : If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

### Horizontal Frequency

- The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency.

Unit : kHz

#### ▣ **Interlace and Non-Interlace Methods**

- ▢ Showing the horizontal lines of the screen from the top to the bottom sequentially is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

#### ▣ **Plug & Play**

- ▢ This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

#### ▣ **Resolution**

- ▢ The number of horizontal and vertical dots used to compose the screen image is called the 'resolution'. This number shows the accuracy of the display. A high resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example :If the resolution is 1280 x 1024 , this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).

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### ▣ **For Better Display**

- ▢ Adjust computer resolution and screen injection rate (refresh rate) on computer as described below to enjoy the best quality of picture. You can have an uneven quality of picture in the screen if the best quality of picture is not provided in TFT-LCD.
  - ▶ Resolution : 1280 x 1024
  - ▶ Vertical frequency (refresh rate) : 60 Hz
- ▢ TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.
  - ▶ For example, the number of TFT LCD sub pixels that is contained in this product are 3,932,160.
- ▢ When cleaning the monitor and the panel outside, please apply the recommended small amount of cleaner by using a soft cloth to polish. Do not force the LCD area but rub softly. If excessive force is applied, you can have a stain on it.
- ▢ If you are not satisfied with the picture quality, you can get better quality of picture by performing the "auto adjustment function" in display screen that is appeared as window termination button is pressed.  
If there's still noise after the automatic adjustment, use the FINE/COARSE adjustment function.
- ▢ When viewing a fixed screen for an extended period of time, a residual image or blurriness may appear.  
Change the mode to energy save or set a screensaver to move the picture when you need to be away from the monitor for an extended period of time.

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